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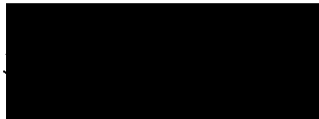
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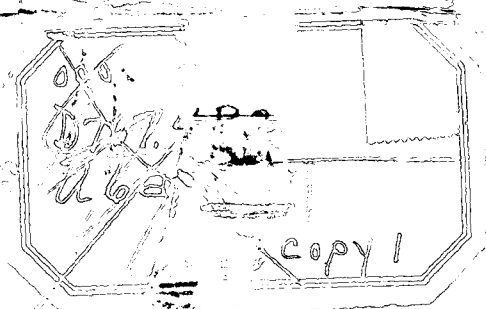
JOINT STAFF STUDY: ICEBERG OPERATION.

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UNITED STATES PACIFIC FLEET
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Headquarters of the Commander in Chief

Serial 0001063

2 December 1944

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To : Distribution List.
Subject: Joint Staff Study, ICEBERG Operation.
Reference: (a) Subject Staff Study, CinCPOA ser. 000131 of 25 October 1944.
Enclosures: (A) Paragraph 2 k, of Appendix E to subject study - "Military Government".
(B) Paragraph 5 d, of Appendix E to subject study - "Care of Civilians".

1. Reference (a) states that discussion of Military Government and Care of Civilians in subject operation will be issued separately at a later date.

2. Forwarded herewith as Enclosure (A) is a discussion of Military Government to be included as paragraph 2 k in subject staff study. Also forwarded as Enclosure (B) is a discussion of Care of Civilians to be included as paragraph 5 d of subject staff study.

J.H. TOWERS
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UNITED STATES PACIFIC FLEET
AND PACIFIC OCEAN AREAS
Headquarters of the Commander in Chief

Serial 000131

25 October 1944.

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(to be shown only to those who must see it for further study)

ICEBERG

1. The attached study of ICEBERG is the basis for directives for the operation but is not in itself a directive or considered to commit the Commander in Chief, U. S. Pacific Fleet and Pacific Ocean Areas to any course of action. It is circulated to Joint Staff and major subordinate commanders to facilitate planning and implementation, both operational and logistic.

2. Changes may be made in the study as the situation develops.

FORREST SHERMAN,
Deputy Chief of Staff.

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PART I

CONCEPT

1 - 7

Appendices

A - Ground Forces

8 - 12

Annex 1 - Scheme of Maneuver

(Chart)

B - Air Forces

13 - 18

Annex 1 - Proposed Fast Carrier Operations (Chart)

Annex 2 - Proposed Shore Based Air Operations

(Chart)

C - Naval Forces

19 - 24

Annex 1 - Proposed Assembly of Naval Forces

25 - 26

Annex 2 - Tracks of Assault Forces

(Chart)

Annex 3 - Proposed Approach to Objective

(Chart)

D - Submarine Operations

27 - 28

E - Logistic Measures

28a - 50

Annex 1 - Possible Location of Airfields and Other Facilities

(Chart)

Annex 2 - Proposed Assignment of Aviation Squadrons

(Chart)

F - Troop List

51 - 69

Annex 1 - Detail of Naval Units

70 - 72

G - Phase II - Seizure of IE SHIMA and Operations on OKINAWA subsequent to Phase I

73 - 86

H - Phase III - Seizure and Development of Additional Positions

87 - 105

ICEBERG

CONCEPT

I. DIRECTIVE

The Joint Chiefs of Staff have directed the Commander in Chief Pacific Ocean Areas to occupy one or more positions in the NANSEI SHOTO, target date 1 March 1945.

II. ASSUMPTIONS

That the seizure of IWO JIMA is completed at a sufficiently early date to permit availability of fire support units and close air support units for the assault in the NANSEI SHOTO.

That results of our operations against the EMPIRE, FORMOSA, the RYUKYUS, and the enemy Fleet during the period preceding the target date for the NANSEI SHOTO assault indicates that we will be able to maintain continuing control of the air in the objective area.

That assault shipping and supporting naval forces are released promptly from LUZON operations.

III. PURPOSES

To establish bases from which to:

(1) Attack the main islands of JAPAN and their sea approaches with naval and air forces.

(2) Support further operations in the regions bordering on the EAST CHINA SEA.

(3) Sever Japanese sea and air communications between the EMPIRE and the mainland of ASIA, FORMOSA, MALAYA, and the NETHERLANDS EAST INDIES.

To establish secure sea and air communications through the EAST CHINA SEA to the coast of CHINA and the YANGTZE VALLEY.

To maintain unremitting military pressure against JAPAN.

IV. TASKS

Immediate:

Capture, occupy, defend, and develop OKINAWA Island and establish control of the sea and air in the NANSEI SHOTO area.

Eventual:

Extend control of the NANSEI SHOTO by capturing, occupying, defending and developing additional positions.

V. CONCEPT OF OPERATIONS

Carrier attacks on JAPAN and the air threat from the MARIANAS together with our seizure of IWO JIMA are expected to force a concentration of Japanese air strength in the heart of the EMPIRE. Our Expeditionary Forces will be subject to strong attacks by Japanese aviation staged through KYUSHU or the CHINA Coast and FORMOSA.

By making powerful air attacks on the EMPIRE and FORMOSA prior to the OKINAWA assault we can inflict heavy losses upon Japanese air forces and reduce the potential threat to our expeditionary forces.

The capture and occupation of the OKINAWA Islands require that our forces establish undisputed control of the

sea and air in the area of operations. Accordingly, the movement into the RYUKYUS will be preceded by air operations as follows:

- (1) Preliminary reconnaissance of the objectives by air forces based on the Asiatic mainland and by those based in the MARIANAS.
- (2) Destructive attacks on the main Japanese islands by carrier aircraft and by very long range bombers operating from CHINA and the MARIANAS.
- (3) Destructive attacks on the Japanese air forces and bases in FORMOSA, AMOY, and the PESCADORES by carrier task forces and by air forces based in LUZON.

Prior to amphibious operations against OKINAWA, strong carrier attacks will be made as necessary against critical objectives in FORMOSA, the main Japanese islands, and in the RYUKYUS in order to destroy enemy forces and installations.

In advance of the operations, the sea communications of the RYUKYUS will be destroyed to the maximum extent practicable by the action of submarines and by surface and air attacks on shipping.

The approach of the attack force will be covered by further intensified attacks on enemy air bases in FORMOSA, KYUSHU and on islands of the NANSEI SHOTO.

The scheme of maneuver will be designed to gain early use of sufficient airdrome capacity in OKINAWA, together

~~XXXXXXXXXX~~
with unloading facilities adequate to support its development, to maintain positive control of the air in the area.

Air bases will be activated rapidly to support the air garrison listed under Forces Required. The air force to be based ashore will total approximately 650 airplanes.

The port of Naha will be developed to its maximum capacity to accommodate support shipping and to support forces for subsequent operations. NAKAGUSUKU BAY will be developed as an advanced fleet base with port facilities to provide logistic support for major fleet units and occupation forces.

Following is the general sequence of operations in NANSEI SHOTO:

Phase I Capture the southern portion of OKINAWA including small adjacent islands and develop base facilities.

Phase II Seize the remainder of OKINAWA and IESHIMA and develop additional necessary base facilities in favorable localities.

Phase III Exploit our position in the NANSEI SHOTO seizing and developing additional positions with forces locally available.

VI FORCES

(a. Ground Forces.

Tenth Army Headquarters and Army troops.

CORPS

III Amphibious Corps

PRINCIPAL TROOPS

1st MarDiv

MOUNTING AREAS

RUSSELLS

CONFIDENTIAL

<u>CORPS</u>	<u>PRINCIPAL TROOPS</u>	<u>MOUNTING AREAS</u>
	2nd MarDiv	SAIPAN
	6th MarDiv	GUADALCANAL
XXIV Army Corps	7th Infantry Division	LEYTE
	96th Infantry Division	LEYTE
	77th Infantry Division	NEW CALEDONIA

In area reserve:

27th Infantry Division at ESPIRITU SANTO.

One infantry division to be designated, mounted in the South Pacific.

b. Garrison Air Forces

4 Groups Marine Fighters	288 VMF
2 Squadrons Marine Night fighters	24 VMF(N)
2 Squadrons Marine torpedo bombers	36 VMTB
2 Squadrons Navy heavy patrol bombers	24 PB(HL)
1 Squadron Navy photographic	6 VD
1 Squadron photo-reconnaissance (P-38)	12 F-5
2 Groups Army medium bombers	128 B-25
2 Groups Army heavy bombers	96 B-24
2 Squadrons Navy Medium seaplanes	24 PB(MS)

See Appendix F for detailed list of Garrison and Service Units.

c. NAVAL FORCES

(1) Assault

8 BB	24 DMS
9 OBB	36 LCI(G)
11 CV	12 LCI(M)
7 CVL	18 LCI(L)

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18 CVE(combatant)	20 LCT
1 CB	6 ATF
12 CA	2 ATR
10 CL	1 AKN
4 CL(AA)	4 AN
158 DD	48 PC-PCS-SC
48 DE	24 YMS
8 AGC	1500 LVT (cargo)
12 DM	300 LVT (tank)
24 AM	800 DUKW

	Troop Capy	Cargo Capy (MT)
90 APA (AP-APH-LVS)	117,000	90,000
36 AKA (AK)	5,400	108,000
8 LSD	1,600	8,000
150 LST	30,000	75,000
60 LSM	4,500	12,000
16 APD	<u>2,200</u>	<u> </u>
	160,700	293,000

(2) For Area Reserve

To be deployed at mounting points by D-Day and to be additional to naval forces allocated for the initial assault.

1 AGC
12 PC-PCS-SC
12 DE

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	Troop Capy	Cargo Capy (MT)
30 APA(AP)	39,000	30,000
12 AKA(AK)	1,800	36,000
20 LST	4,000	10,000
10 LSM	<u>750</u>	<u>2,000</u>
Totals	45,550	78,000

(3) Garrison

Base Supported

The following naval craft, to be obtained from assault forces where possible, are expected to be based at OKINAWA and will require logistic support from the base:

20 LCT	200 LCM	150 LCVP	24 PT
2 YMT	6 YO		2 YNG
2 YOG	4 YHB	2 YP	

Fleet Supported.

The following additional naval craft, to be obtained from assault forces where possible, will be required for the support and defense of the base, and will be supported from fleet sources:

18 DD	8 ATF	1 ARL	4 AM	1 ARB
6 DE	10 LST	1 AD	4 AN	1 ARS
18 PC-PCS	18 LCI(L)	1 AGP	1 AVR	1 AVD
SC				
6 YMS	18 LCI(G)	1 ARD	1 AV	2 AVP

d. Summary of Forces (See Appendix F for details)

	<u>Combat</u>	<u>Service</u>	<u>Totals</u>
ARMY	95,811	47,932	143,743
NAVY	2,468	57,281	59,749
MARINE	<u>73,676</u>	<u>10,177</u>	<u>83,853</u>
	171,955	115,390	287,345

Area Reserve 2 Infantry Divisions in

SoPac 28,400

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APP.

The estimated strength of the Japanese Forces in the OKINAWA Group, as of 15 October 1944 is 48,600, including:

1 Army headquarters	750
2 First line infantry divisions	35,000
1 Fortress group (Possibly an independent mixed brigade)	4,500
Naval personnel	2,100
Air Base personnel	1,500
Shipping engineer personnel	2,500
1 Tank regiment (30 L, 47 M tanks)	750
Construction personnel	<u>1,500</u>
Total	48,600

An additional first line division (less 1 regt) is estimated to be on MIYAKO JIMA, 150 miles SW of OKINAWA JIMA; the excepted regiment is estimated to be in the DAITO Group, 170 miles east of OKINAWA JIMA. A fourth division is estimated to be in the AMAMI O SHIMA Group, 90 miles northeast of OKINAWA JIMA. Reinforcement of the NANSEI SHOTO was initiated in July 1944, at which time the two divisions arrived at OKINAWA JIMA. By target date these divisions will have had over seven months in which to organize for defense. As a result of the capture of LUZON and IWO JIMA, the Japanese will probably exert maximum effort to complete full defensive preparations in the NANSEI SHOTO.

The civil population of 443,000, three-quarters of whom live in the southern half of OKINAWA JIMA, offers a potential source for homeguard, milita, and guerilla forces who in them-

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selves constitute a serious threat of opposition.

From previous experience it is known that the Japanese will resist fanatically any invasion of the NANSEI SHOTO, and will counterattack and reinforce within the limits imposed by our superior air and naval forces.

Information as to enemy defensive installations on OKINAWA JIMA is meager, but there are indications that the southern half of the island (south of a general line from SERAKAKI to CHIMU) will contain the bulk of garrison forces, and have strongly organized defenses at the beaches and in depth. The northern half of the island is mountainous with a high central ridge bordered by terraces. Therefore, it is assumed that, with the exception of MOTOBU Peninsula, the Japanese will defend this area lightly. IE SHIMA is fortified, and is the location of an excellent airfield. The NAHA Harbor area is reported to be defended by coast defense guns installed on the high ground south of NAHA. These guns are capable of opposing amphibious assault within their range on the east as well as on the west coast. The areas guarding the approaches to NAKAGUSUKU WAN and CHIMU WAN, including the small satellite islands off the east coast, are reported to be heavily fortified. Five airfields are situated in the southern half of OKINAWA JIMA, - two in the JIMA-KATENA area, two in the NAHA area, and one on the east coast midway between KATENA and NAHA. These fields are expected to be strongly defended.

Information on landing beaches is sketchy although locations of fifteen are known on the southern half of OKINAWA JIMA; of these, ten are on the west coast, one on the southeast, and four

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on the east. Further reconnaissance will probably reveal other suitable beaches. There is at least one landing beach on each satellite island off the east coast. Fringing reefs are found off all beaches.

According to available information, the most favorable coastline for landing and for advance inland is west of KATENA, north and south of the river mouth.

2. ASSAULT FORCES REQUIRED

The strength of the forces required for the seizure and occupation of OKINAWA JIMA is estimated to be an army of two corps of three reinforced divisions each in the assault, with two Army divisions in area reserve.

Units of the XXIV Corps will be mounted in LEYTE and NEW CALEDONIA. Rehearsals will take place in the mounting areas.

Units of the III Amphibious Corps, less one division, will be mounted in the GUADALCANAL - RUSSELLS area and rehearsed in the GUADALCANAL area. The 2nd Marine Division will be mounted in the MARIANAS and will be the third division of this Corps.

Two Army divisions, the 27th at ESPIRITU SANTO, and an additional division to be designated, will constitute the area reserve.

3. DEFENSE FORCES REQUIRED

OKINAWA JIMA lies within bomber range of FORMOSA, the CHINA COAST and JAPAN proper and within fighter range of other islands of the NANSEI SHOTO Group. It can be expected that enemy reaction to the occupation of this island and any other islands in the NANSEI SHOTO will be strong in air and surface vessel counterattack with a possible attempt on the part of the Japanese to retake OKINAWA JIMA. It is estimated that two infantry

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divisions taken from the assault force will be required for garrison.

The principle bases requiring antiaircraft protection will be NAHA, BATEN KO, YONABARU, KUBA SAKI, ONO MISAKI, KOGUSUKU, OSUNOHANA, CHIMU, and TSUKEN JIMA. It is contemplated that eight airfields will be activated in the southern half of OKINAWA JIMA and a seaplane base on TSUKEN JIMA. In order to provide the necessary anti-aircraft artillery protection for installations on OKINAWA JIMA five Army AAA gun battalions, five Army AAA automatic weapons battalions, two Army AAA searchlight battalions and four Marine anti-aircraft battalions will be required.

Coast defenses are required for the protection of the Port of NAHA, the naval base of NAKAGUSUKU WAN and the seaplane base of TSUKEN JIMA. Three Army 155-mm gun battalions of seacoast artillery (SM) will be required.

4. SCHEME OF MANEUVER

The scheme of maneuver for operations against the NANSEI SHOTO will comprise three phases, as follows:

PHASE I. See Annex 1

The southern half of OKINAWA JIMA (that part south of a general line from SERAKAKI to CHIMU), including the satellite islands off the east coast, has been selected as the objective area for this phase. The scheme of maneuver is designed to isolate the objective area by seizing ISHIKAWI Isthmus in order to prevent enemy reinforcement from the north. Simultaneously the assault forces will seize and occupy a general east-west line from KUBA SAKI in order to prevent enemy reinforcement from the south. After capture and occupation of the northern half of the objective area, the attack is continued to capture

and occupy the remainder of the objective area.

PHASE II. See Annex 1.

This phase comprises the capture and occupation of the remainder of OKINAWA JIMA and of IE SHIMA. It will be initiated upon completion of PHASE I on W-Day to be announced by the Commanding General Expeditionary Troops. The seizure of these objectives will be accomplished by a shore-to-shore amphibious assault on IE SHIMA, and a combined shore-to-shore amphibious and land assault against the north half of OKINAWA JIMA. Forces locally available will execute the operation. The scheme of maneuver should embrace the early capture of MOTOBU Peninsula, followed by the capture of IE SHIMA, followed by capture of the remainder of OKINAWA JIMA.

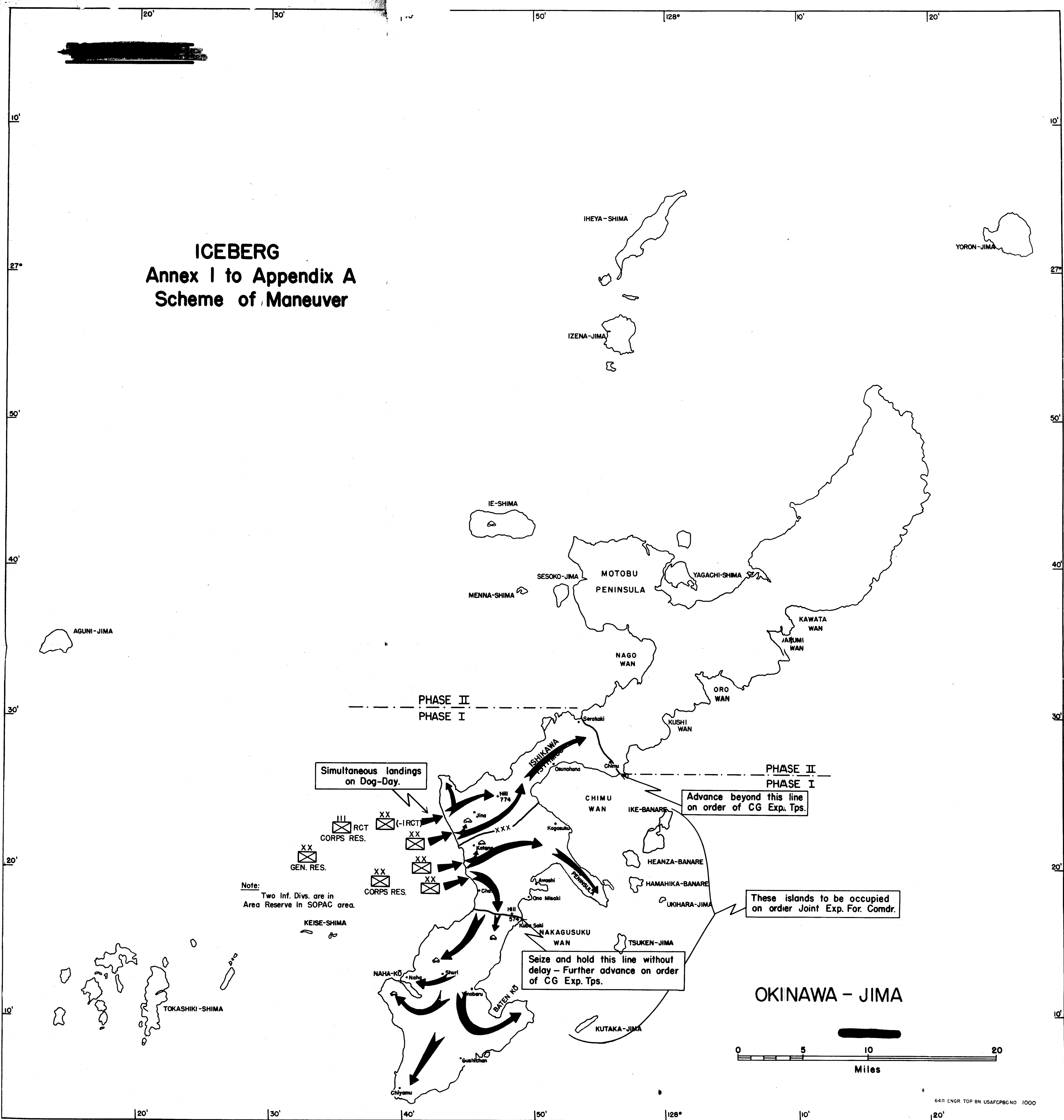
PHASE III

This phase will comprise the seizure and occupation of other positions in the NANSEI SHOTO as directed by CinCPOA.

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Annex I to Appendix A

Scheme of Maneuver



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APPENDIX B

AIR FORCES

1. CONCEPT OF OPERATIONS.

Preliminary air bombardment of FORMOSA and OKINAWA will be conducted by the Far Eastern Air Force and 20th Air Force from bases in LUZON, CHINA, and the MARIANAS to the extent that execution of their primary mission permits.

Air operations in direct preparation for the assault will consist of a series of carrier based attacks on FORMOSA, the NANSEI SHOTO, and the KYUSHU - WESTERN HONSHU area, in that order, to destroy enemy air effectiveness at the objective and supporting bases. This succession of attacks will culminate in a sustained attack on KYUSHU just prior to the assault on OKINAWA.

Air opposition having been eliminated by carrier strikes, replenishment of enemy air bases will be prevented by shore based attacks on FORMOSA and the southern RYUKYUS by aircraft based in LUZON and CHINA, and by continued action of fast carrier groups on KYUSHU and the northern islands of NANSEI SHOTO.

Escort carriers will maintain control of the air at OKINAWA and provide direct air support for the assault.

Very heavy bombers from the MARIANAS will provide general support by continuing operations against targets in the EMPIRE and by heavy attacks on OKINAWA.

Tasks

The tasks to be performed by the air forces are:

- (1) Search and reconnaissance.
- (2) Destruction of aircraft, aircraft installations and fixed defenses.

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- (3) Covering strikes on the EMPIRE.
- (4) Neutralization of enemy bases from which operations in the objective area may be threatened.
- (5) Destruction of enemy naval forces and shipping.
- (6) Close protection of our surface forces.
- (7) Direct air support of landings and operations ashore.
- (8) Air defense of the captured base until garrison air fields are activated.
- (9) Continued neutralization of by-passed enemy bases.
- (10) Photographic reconnaissance of objective areas.

2. OPERATIONS.

a. Carrier Forces.

Fast Carriers (See Annex 1 to Appendix B)

The Fast Carrier Task Force will sortie from ULITHI on D-15 and will conduct sustained strikes on the FORMOSA - MIYAKO areas on D-11 and D-10. After fueling and receiving replacements, strikes will be conducted against the OKINAWA - AMAMI O SHIMA areas on D-7, D-6 and D-5. Then after again fueling and receiving replacements strikes will be conducted against the KYUSHU - WESTERN HONSHU areas on D-3, D-2, D-1 and D Days retiring as necessary for fueling.

Thereafter the Task Groups will rotate in maintaining a covering position and in conducting supporting strikes as necessary for continuing operations.

During the strikes against OKINAWA on D-7, D-6 and D-5, bombardment by the fast battleships will be conducted.

Escort Carriers

The escort carriers will escort and provide air cover for the Expeditionary Force during its movement to the

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objective and provide direct air support for the assault, occupation and development of the objective as required. Sufficient escort carriers will remain at the objective to provide air defense until garrison airfields are activated.

Transport Carriers

Transport carriers will transport to the area of operations, replacement aircraft, parts, pilots and aircrews for the CVs and CVLs and CVEs. Transport carriers will also transport designated garrison aircraft to the objective.

b. Shore Based Air Forces.

Naval Search Squadrons, POA

Maintain search of ocean areas north and west of the MARIANAS. If development of airfields on IWO JIMA will permit, extend this reconnaissance as far as practicable toward the NANSEI SHOTO and HONSHU when the Fast Carrier Task Force departs from ULITHI on D-15.

Interdict enemy search by offensive patrols from the MARIANAS and IWO JIMA ahead of the Fast Carrier Task Force.

Strategic Air Force, POA

Neutralize enemy bases in the CAROLINES and BONINS. Strike targets of opportunity.

Strike the AMAMI GUNTO and JAPAN as practicable.

Provide fighter escort for VLR attacks on the EMPIRE.

China Based Air Forces.

The 14th Air Force and 20th Bomber Command operations will be coordinated by the Commanding General, CHINA-BURMA-INDIA in conformity with Alternate PAC-AID. Specific operations desired by POA are:

Conduct repeated photographic reconnaissance of OKINAWA.

Beginning D-30 sorties allocated to the support

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of POA will be directed against air installations on Northern FORMOSA.

20th Air Force (MARIANAS)

From D-30 to D-8 and D-5 to D Day all sorties which are allocated to the support of ICEBERG will be directed against OKINAWA airfield installations and fixed defenses.

Any sorties which may be scheduled for D-7 and D-6, when the fast carriers are attacking OKINAWA, should be directed against airfields in Southern KYUSHU.

Far Eastern Air Force.

Initiate attacks on enemy air bases in FORMOSA as soon as the situation in LUZON permits.

Maintain neutralization of airfields on FORMOSA and the SAKISHIMA MUNTO following the carrier attacks on these areas.

Maintain search of the SOUTH CHINA SEA, STRAIT OF FORMOSA and the sea areas east of FORMOSA.

3. COORDINATION.

In accordance with the provisions of Alternate PAC-AID, the Commanding General 14th Air Force will coordinate the operations of the 14th Air Force and of the 20th Bomber Command.

The Commanding General, Strategic Air Force, POA, will coordinate the operations of his command with the 20th Air Force in the MARIANAS.

CinCPOA will coordinate the operations of carrier aviation and all shore based air forces assigned to the Pacific Ocean Areas. He will also coordinate the activities of all air forces under his command with those assigned to other areas.

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4. AIR BASE DEVELOPMENT.

Air bases will be developed to accommodate the following air force:

4 groups Marine fighters	288 VMF
2 squadrons Marine night fighters	24 VMF(N)
2 squadrons Marine torpedo bombers	36 VMTB
2 squadrons Navy heavy patrol bombers	24 PB(HL)
1 squadron Navy photographic	6 VD
1 squadron Photo reconnaissance (P-38)	12 F-5
2 groups Army medium bombers	128 B-25
2 groups Army heavy bombers	96 B-24
2 squadrons Medium seaplanes	24 PB(MS)

Eight airfields, four fighter and four bomber, and one seaplane base will adequately support this force.

Operationally, it is desirable that these units be installed as follows:

2 groups VMF	D / 5
2 squadrons VMF(N)	D / 5

Additional:

2 groups VMF	D / 20 or earlier
2 squadrons VMTB	D / 20 or earlier
1 group VBM	D / 30
1 group VBM	D / 40
2 squadrons PB(HL)	D / 50
2 groups VBH	D / 50
2 squadrons Photo	D / 50
2 squadrons PB(MS) (tender based commencing D/2)	D / 60
2 CV groups	When construction
200 replacement aircraft	troops available from other airfields.

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Subject to adjustments imposed by engineering problems, these units could well be segregated as follows:

4 fighter fields, Marine, each to accommodate 1 VMF group. On each of two of these fields there will be additionally 1 VMF(N) squadron. Provision will also be made for 1 Marine wing headquarters. One of the VMF groups, and one VMF(N) squadron will be located in the southern portion of the island. The remainder of the fighters may be in one general area to the north.

3 Army fields, one for two groups of heavy bombers, the other two each to support one medium bomber group. One photographic reconnaissance squadron will be located on one of these fields.

1 Navy field for 2 VMTB squadrons, 2 PB(HL) squadrons, 1 photographic squadron, plus troop carrier terminal and transient facilities. 1 utility towing squadron and 1 drone squadron when NAKAGUSUKU WAN becomes available as a secure fleet anchorage.

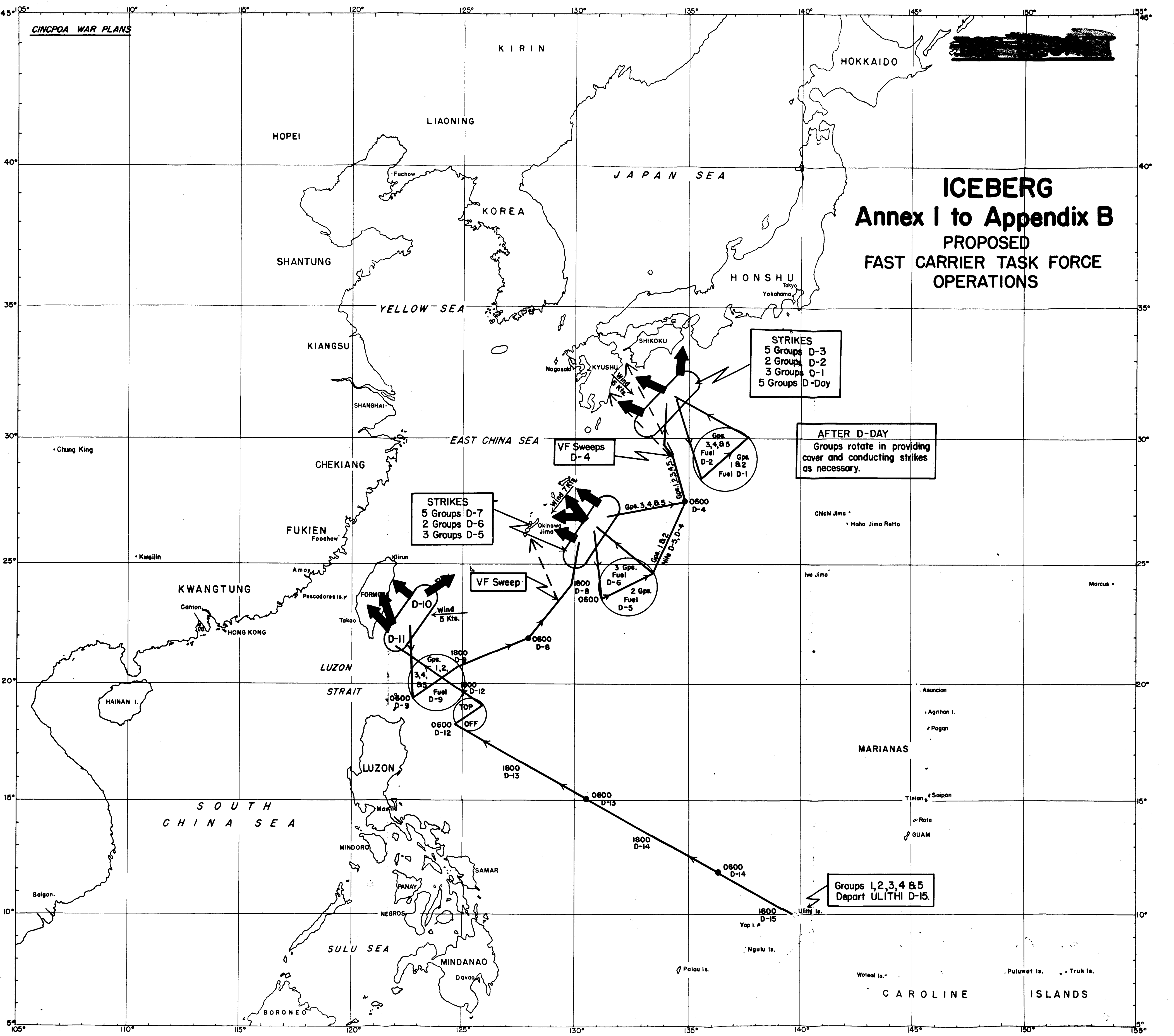
One seaplane base for the operation of 1 squadron of PB(MS) and 1 Rescron and NATS seaplanes.

If terrain studies make a different grouping of units desirable, or permit the use of fewer fields by interlocking dispersal areas, the segregation indicated may be varied.

ICEBERG

Annex I to Appendix B

PROPOSED FAST CARRIER TASK FORCE OPERATIONS



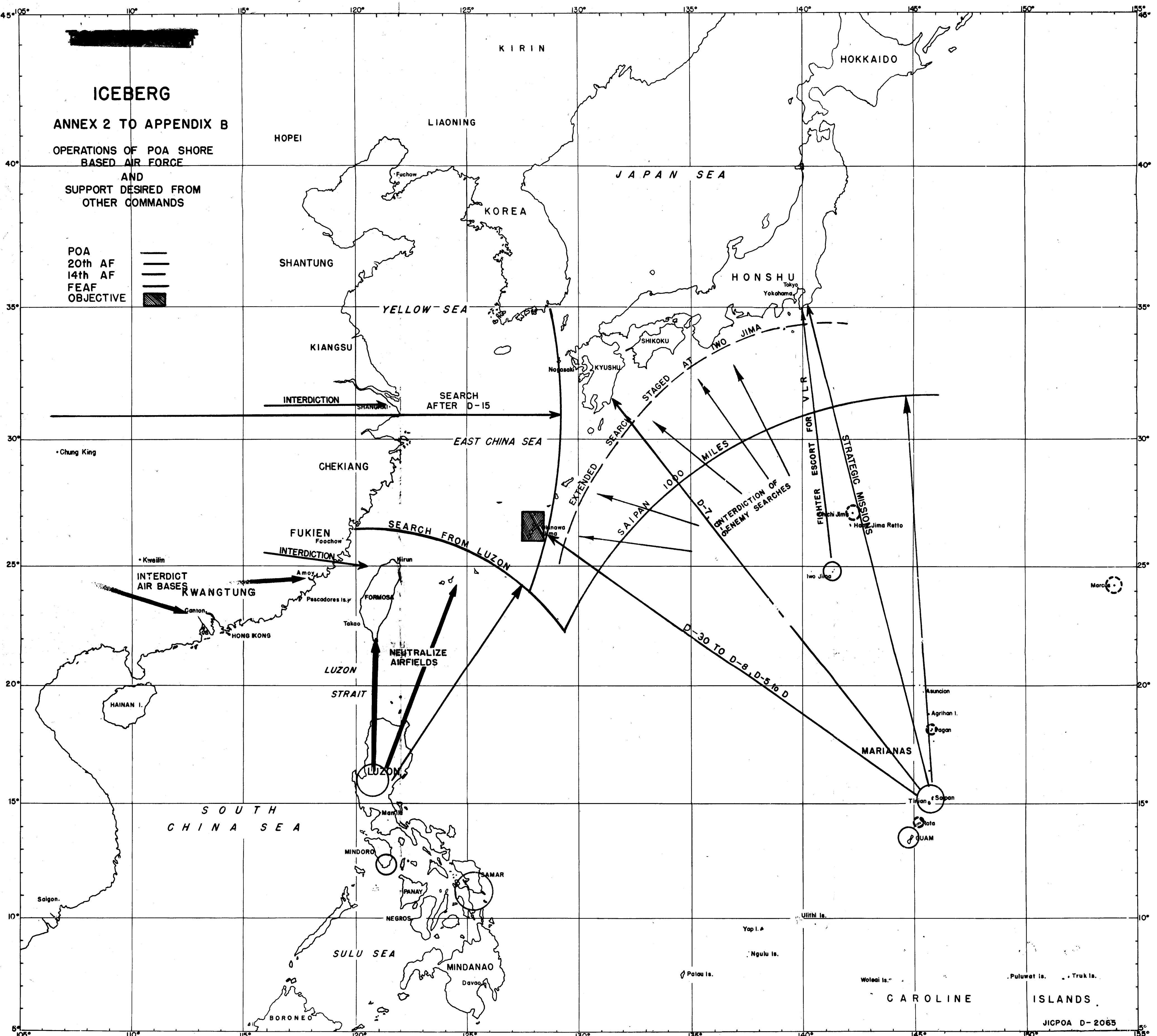
ICEBERG

ANNEX 2 TO APPENDIX B

OPERATIONS OF POA SHORE
BASED AIR FORCE

AND
SUPPORT DESIRED FROM
OTHER COMMANDS

POA
20th AF
14th AF
FEAF
OBJECTIVE



ICEBERGAPPENDIX CNAVAL FORCES1. ASSAULT SHIPPING

In order to deploy assault shipping to mount 6 divisions for the assault with 2 additional divisions in reserve, it is planned that ships be provided in the manner indicated in the following table:

APP

	<u>APA(AP-APH-LSV)</u>	<u>AKA(AK)</u>	<u>LST</u>	<u>LSD</u>	<u>LSM</u>	<u>AGC</u>
Assigned 7th Fleet for LINGAYEN	70	19	120	10	30	4
Est. overhaul required after LINGAYEN	10	1	40	2	5	0
To be made available for DETACHMENT from forces employed at LINGAYEN	15	6	0	3	0	0
Remainder available for ICEBERG from LINGAYEN	45	12	80	5	25	4
To be redeployed from DETACHMENT to ICEBERG	15	6	0	3	0	2
To be employed from New Construction and from overhaul to ICEBERG	30	18	70	0	35	1
Total for ICEBERG on D-Day	90	36	150	8	60	7
Additional for ICEBERG reserve to be deployed from DETACHMENT	30	12	20	0	10	1

It is expected that following the landing at LINGAYEN and after selected ships are returned to the West Coast for overhaul, the remaining 60 troop ships (APA-AP-APH-LSV) will be organized in 4 transport squadrons.

These squadrons should adhere approximately to the following operating schedule:

TransRon I	Depart LINGAYEN for MARIANAS empty	Dec. 28
	Arrive MARIANAS (1800 miles)	Jan. 4
	Complete interim upkeep	Jan. 14
	Complete loading 3rd MarDiv for DETACHMENT	Jan. 20
	Arrive TWO JIMA (780 miles)	Jan. 23
	Depart TWO JIMA for MARIANAS with 3rd MarDiv	Feb. 13
	Arrive MARIANAS	Feb. 16
	Complete unloading and depart MARIANAS	Feb. 21
	Arrive SoPac available to load one division as reserve for ICEBERG	Mar. 1
	TransRon II	Depart LINGAYEN for NEW GUINEA with Casuals
Arrive NEW GUINEA (2000 miles)		Jan. 13
Complete unloading		Jan. 17
Arrive GUADALCANAL (900 miles)		Jan. 20
Complete interim upkeep		Feb. 7
Complete rehearsals 6th MarDiv		Feb. 13
Complete final loading and depart		Feb. 19
Arrive OKINAWA (2870 miles)		Mar. 1
TransRon III	Depart LINGAYEN	Dec. 24
	Arrive NEW GUINEA (2000 miles)	Jan. 3
	Complete unloading and reloading	Jan. 10
	Arrive LINGAYEN (2nd Trip)	Jan. 17
	Depart LINGAYEN	Jan. 22
	Arrive LEYTE (950 miles)	Jan. 25
	Complete interim upkeep	Feb. 12
	Complete rehearsals 7th Div	Feb. 19
	Complete final loading and depart	Feb. 25
Arrive OKINAWA (1000 miles)	Mar. 1	
TransRon IV	Depart LINGAYEN	Dec. 24
	Arrive NEW GUINEA (2000 miles)	Jan. 3
	Complete unloading and reloading	Jan. 10
	Arrive LINGAYEN (2nd Trip)	Jan. 17
	Depart LINGAYEN	Jan. 22
	Arrive LEYTE (950 miles)	Jan. 25
	Complete interim upkeep	Feb. 12
	Complete rehearsals 96th Div.	Feb. 19
	Complete final loading and depart	Feb. 25
Arrive OKINAWA (1000 miles)	Mar. 1	

In addition to these transport squadrons released from LINGAYEN, two new squadrons which are to be used in DETACHMENT should adhere approximately to the following operating schedule:

TransRon V	Depart IWO JIMA with Casuals	Jan. 27
	Arrive SAIPAN	Jan. 30
	Complete interim upkeep	Feb. 11
	Complete rehearsals 2nd MarDiv	Feb. 18
	Complete final loading and depart	Feb. 24
	Arrive OKINAWA (1250 miles)	Mar. 1
TransRon VI	Depart IWO JIMA with one combat Div.	Feb. 10
	Arrive MARIANAS	Feb. 13
	Complete unloading and depart	Feb. 18
	Arrive ESPIRITU (2250 miles)	Feb. 26
	Complete interim upkeep	Mar. 8
	Available to load 27th Div as reserve for ICEBERG	

In addition to these squadrons, two newly formed squadrons from new construction will adhere approximately to the following operating schedule:

TransRon VII	Depart PEARL	Jan. 22
	Arrive GUADALCANAL (3200 miles)	Feb. 3
	Complete voyage repairs	Feb. 7
	Complete rehearsals 1st MarDiv	Feb. 13
	Complete final loading	Feb. 19
	Arrive OKINAWA (2870 miles)	Mar. 1
TransRon VIII	Depart PEARL	Jan. 18
	Arrive NEW CALEDONIA (3400 miles)	Jan. 31
	Complete voyage repairs	Feb. 3
	Complete rehearsals 77th Div.	Feb. 9
	Complete final loading	Feb. 15
	Arrive OKINAWA (3800 miles)	Mar. 1

2. FIRE SUPPORT GROUPS

It is desirable that the total fire support force be divided into three groups in order to:

(a) Provide fire support during rehearsals for troops mounting in LEYTE and in GUADALCANAL.

(b) Operate in relays at the objective, because the period during which fire support will be required extends over a considerable period of time.

The groups may be organized as follows:

<u>"A"</u>	<u>"B"</u>	<u>"C"</u>
5 OBB	2 OBB	2 OBB
		1 CB
2 CA	2 CA	1 CA
2 CL	1 CL	
9 DD	4 DD	5 DD

Groups should operate in accordance with the following approximate schedule:

Group A	Depart IWO JIMA (DETACHMENT D / 13)	Feb. 2
	Arrive ULITHI	Feb. 5
	Complete interim upkeep rearming, etc.	Feb. 19
	Arrive OKINAWA (ICEBERG D - 6)	Feb. 23
Group B	Depart IWO JIMA (DETACHMENT D / 10)	Jan. 30
	Arrive LEYTE	Feb. 2
	Complete upkeep, rearming, rehearsals	Feb. 24
	Arrive OKINAWA (ICEBERG D - 1)	Feb. 28
Group C	Assemble in GUADALCANAL	Jan. 25
	Complete rehearsals etc.	Feb. 19
	Arrive OKINAWA (ICEBERG D - 1)	Feb. 28

Upon arrival at the objective Groups B and C would combine to form the relief for Group A which could then retire to LEYTE for replenishment of ammunition.

3. CLOSE AIR SUPPORT UNITS

Of the 18 CVE now temporarily allocated to the 7th Fleet,

it is expected that 9 will be returned for employment in DETACHMENT, after which they will be available for employment in ICEBERG. The remaining 9 will be returned to the control of Pacific Ocean Area Forces about 1 February, in time for use in ICEBERG; these are exclusive of CVE employed as oiler escorts and as ASW units; and are exclusive of transport CVEs.

These 18 CVEs should be disposed approximately as follows:

Screen for advance Fire Support Group	8 CVE
Screen for Amphibious Force mounting in LEYTE	4 CVE
Screen for Amphibious Force mounting in SoPac	4 CVE
Screen for Amphibious Force mounting in MARIANAS	2 CVE

4. MINESWEEPING GROUP

The Minesweeping Group should depart LEYTE or ULITHI in time to reach the objective with the fire support units arriving on D - 6; this group should receive adequate air support from the escort carriers which accompany them and from aircraft of the covering force.

The approach to the objective should be on a northwesterly course leaving KOKA JIMA and KUME SHIMA to the northward then circling to the north, northeast and finally southeast in order to reach a disembarkation area along the western beaches of OKINAWA. The approach courses shown on Annex 3 to Appendix C take advantage of deep unminable waters where possible, through which the fleet can proceed without the necessity of sweeping. Although there is no evidence of mines immediately westward of OKINAWA, the final approach track for a distance of about 20 miles, where depths of less than 500 fathoms are encountered, should be swept on D-6 in order to permit close approach of the fire support group. The area adjacent to selected landing

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beaches inside the 100 fathom curve should be swept during the period between D-5 and D-1; this area contains about 15 sq. miles.

5. COVERING FORCE

Operations of the Covering Force are described in Appendix B. Battleships and cruisers are expected to be provided with HC ammunition to about 15% capacity; this should be expended against selected targets at the objective. After preliminary air strikes, the operations of the Covering Force will be governed by the activities of enemy naval and air forces, and by requirements for tactical air support at the objective.

ANN

PROPOSED ASSEMBLY OF NAVAL FORCES

ANNEX 1 APPENDIX C

	D-40	D-35	D-30	D-26	D-20	D-15	D-5
GUADALCANAL	11 APA 3 APH 1 LSV 5 LSD 2 AGC 50 LST 20 LSM 5 APD 6 AKA	2 OBB 1 CB 1 CA 5 DD	18 LCI(G) 6 LCI(H) 9 LCI(L) 20 LCP 3 PC-PCS-SC 6 YMS	15 APA 6 AKA 9 DD 1 AGC	4 CVE 6 DD 12 DE 6 DM		

LEYTE							
	29 APA 1 LSV 2 LSD 12 AKA 2 AGC 50 LST 20 LSM 6 APD	2 OBB 2 CA 1 CL 14 DD 18 LCI(G) 6 LCI(M) 9 LCI(L) 8 PC-PCS-SC 6 YMS 20 LSM	4 CVE 6 DD 6 DE 6 DM				

NOUNEA							
	15 APA 6 AKA 9 DD 6 DE 1 AGC 6 YMS 25 LST 10 LSM	For Troops in Area Reserve	15 APA 6 AKA 10 LST 6 PC-PCS-SC 6 DE 5 LSM				

PROPOSED ASSEMBLY OF NAVAL FORCES (Cont'd) ANNEX 1 APPENDIX C

D-40 D-35 D-30 D-26 D-20 D-15 D-5

ULITHI

5 OBB 24 DMS
2 CA 24 AM
2 CL 6 ATF
18 DD 2 ATR
8 CVE 1 AKN
6 DE 4 AN
6 YFS
20 PC-PCS-SC

MARIANAS

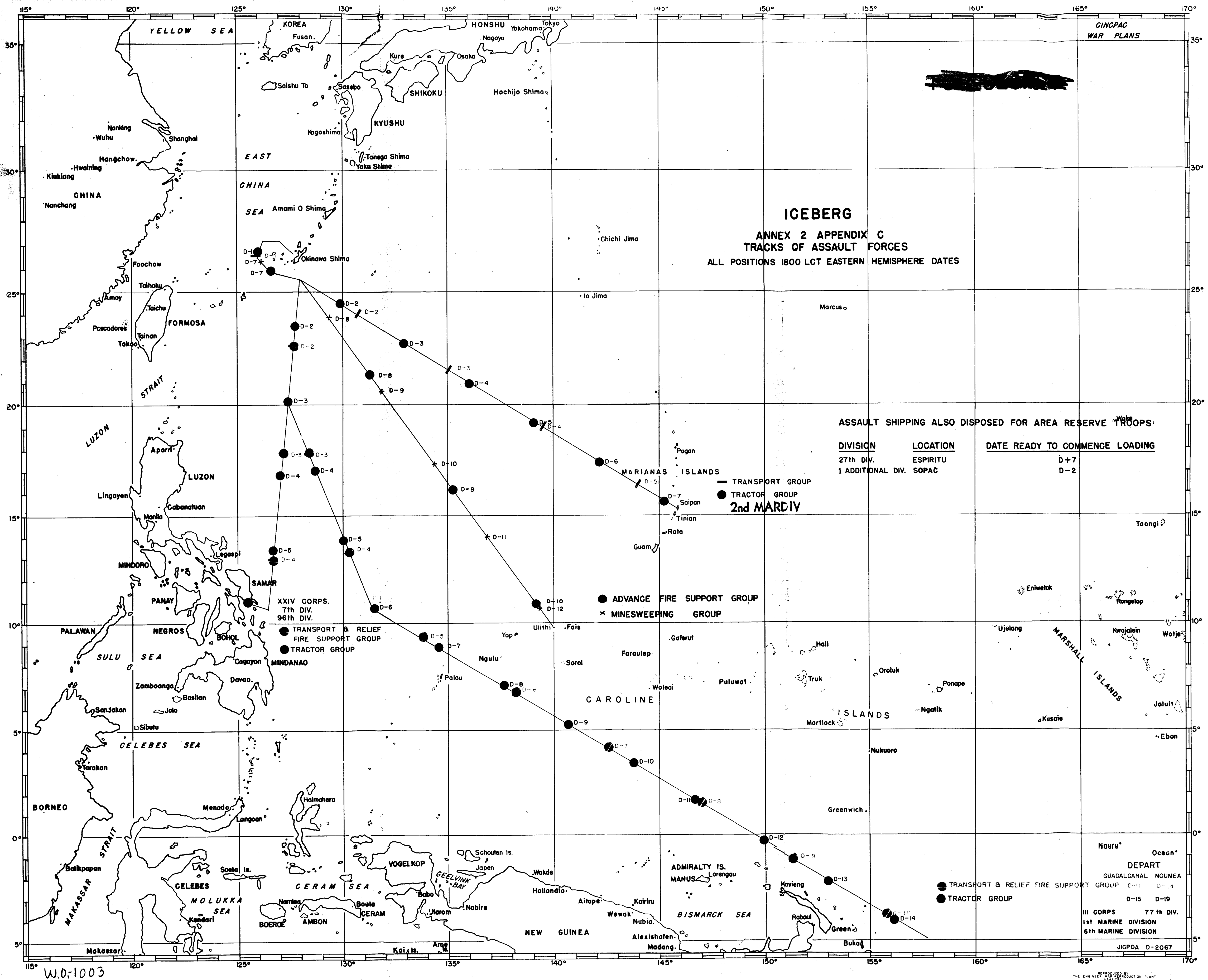
15 APA 2 CVE
6 AKA 6 DD
9 DD 6 DE
1 AGC
1 LSD
25 LST
10 LSM
5 APD

ESPIRITU

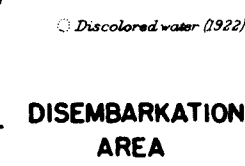
Units of Covering Force are not included, as this Force will be previously organized and assembled. The Covering Force will contain the following:

8 BB 7 CA 76 DD
11 CV 7 CL
7 CVE 4 CL(AA)

For Troops in
Area Reserve
15 APA
6 AKA
1 AGC
10 LST
6 PC-PCS-SC
6 DE
5 LSM



W.D-1003

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ICEBERG

ICEBERG

Appendix D

Submarine Operations

1. DISCUSSION.

Commencing about February 1, it is expected that shore based aircraft operating from NORTHERN LUZON will effectively close the LUZON STRAIT to enemy shipping; will reduce the flow of shipping to and from the SOUTH CHINA SEA to a fraction of its present volume; and will constrict the area used by this shipping to a relatively narrow belt close to the CHINA coast. Unless cargo is transhipped by land carriers through CHINA, all ships carrying even this reduced cargo must pass through the FORMOSA STRAIT.

Inability to use this shipping from the southern area coupled with an increased demand for imports from North CHINA, will tend to increase greatly the volume of shipping from JAPAN to KOREA, SHANGHAI and other North CHINA ports.

The danger of being bottled up in the SOUTH CHINA SEA Area will probably induce the Japanese to move all important naval combatant units to the EMPIRE either before or immediately after our operation against LUZON. Thus the requirement for our submarines in the southern area should be greatly reduced.

2. TASKS.

The augmented submarine force in the Northern Area should be disposed to perform the following tasks:

- (a) Provide life-guard service in the vicinity of OKINAWA from D-30 to D-7; and in designated EMPIRE areas from D-20 to D-20; and in designated areas around FORMOSA and SAKISHIMA GUNTO from D-20 to D-15.

~~TOP SECRET~~

(b) Provide strong submarine patrols south of OKINAWA JIMA and north of AMAMI O SHIMA in order to intercept and destroy enemy forces attempting to threaten our operation or attempting to retire from the area.

(c) Maintain patrols in areas around commercial terminals in the EMPIRE; in the area north of FORMOSA STRAIT; and across the shipping lanes from the EMPIRE to North CHINA ports; in order to inflict maximum attrition on enemy shipping.

(d) Be prepared to concentrate as required to provide strategic or tactical support of the 5th Fleet.

3. RESTRICTIONS.

Operating zones and bombing and attack restrictions will be prescribed in the Current CinCPOA Operating Procedure, with addenda and zone notices as required.

ICEBERG

APPENDIX E

LOGISTIC MEASURES

Appendix E is based upon the logistical requirements for Phase I only.

APP

ICEBERG

APPENDIX E

LOGISTIC MEASURES

1. OPERATIONAL REQUIREMENTS

The concept of operations requires:

- a. Early establishment of facilities for fleet anchorage with logistic support at NAKAGUSUKU BAY; and eventual development of an advanced fleet base.
- b. Rapid construction of airdrome facilities sufficient to support the air program.
- c. Expansion of the port of NAHA to support assault and garrison forces, planned developments in the area, and to mount forces for subsequent operations.
- d. Installation of service elements to accomplish tasks of development.

2. FACTS AFFECTING LOGISTICS

a. Approximate Distances From OKINAWA To:

	<u>Nautical Miles</u>	<u>Approx. Sailing time (10 knots) Days</u>
SAN FRANCISCO	6246	26.
PEARL HARBOR	4155	17.3
ENIWETOK	2145	9.
GUAM	1200	5.
ULITHI	1200	5.
PALAU	1200	5.
GUADALCANAL	2860	11.
MANILA	1000	4.
DAVAO	1360	5.7
CANTON	865	3.6
AMOY	535	2.2
FORMOSA (TAKAO)	555	2.3
SHANGHAI	450	1.9
SASEBO	440	1.8
SHIMONOSEKI	485	2.
OSAKA	635	2.6
TOKYO	840	3.5
VLADIVOSTOK	1055	4.4

b. Geography

OKINAWA JIMA, the largest island in the NANSEI SHOTO, lies between $26^{\circ} 03'$ and $26^{\circ} 52'$ N latitude and between $127^{\circ} 41'$ and $128^{\circ} 20'$ E longitude, commanding the sea approaches to the China Coast. The island was a key point in the communication between JAPAN and the islands under Japanese Mandate. It is a long narrow island (67 miles long and 3 to 10 miles wide), made up of plateaus and ridges with many bays offering sheltered anchorage. NAKAGUSUKU, the foremost of these, has long been used as a fleet base by the Japanese Navy. The island has a total population of 443,000 mostly concentrated in the southern half. NAHA, the largest city on the island, (66,000) is the capital of the island group.

c. Climate

The climate of the OKINAWA Area is controlled by the monsoonal circulation between the Asiatic Continent and the North Pacific Ocean. From October through March winds blow in a clockwise direction out of the region of high pressure in SIBERIA, and the resulting air flow over these islands is from the north and northeast. During April and May there is a gradual reversal in the direction of air flow, and from June through August the winds over the islands are predominately south and southeast, a part of the clockwise circulation around the center of high pressure in the North Pacific Ocean. During the transitional months of April, May and September, the direction of air flow usually alternates several times between northeast and south. Fog and dust rarely occur on these islands. The climate is sub-tropical to tropical with mean variation only 17° to 20° . Average daily maximum temperature in summer 85° - 88° with mean daily minimum of 72° - 79° . Air temperature in winter averages between 55° and 65° . Annual precipitation is heavy and by months is somewhat erratic. Frequently a day's downpour will equal the whole monthly average. In general summer months have the greatest precipitation. Winter precipitation, however, occurs over more extended periods than in summer. ^{See} Average number of days with precipitation (.004 inches or more) are shown in the following table. Figures in parentheses indicate the average inches of rainfall.

	<u>NAHA</u>
January	19($5\frac{1}{2}$)
February	18($4\frac{1}{2}$)

	<u>Naha</u>
March	18(6)
April	16(5)
May	17(10 $\frac{1}{2}$)
June	16(8)
July	16(7 $\frac{1}{2}$)
August	19(7 $\frac{1}{2}$)
September	18(7)
October	16(6 $\frac{1}{2}$)
November	16(5 $\frac{1}{2}$)
December	17(4 $\frac{1}{2}$)

The following table indicates the average number of days with specified cloud cover as of 0600 L.S.T.

		<u>Naha</u>
January	.7 or more	24
	.4 - .6	2
	.3 or less	5
February	.7 or more	22
	.4 - .6	2
	.3 or less	7
March	.7 or more	22
	.4 - .6	3
	.3 or less	6
April	.7 or more	21
	.4 - .6	2
	.3 or less	7
May	.7 or more	25
	.4 - .6	3
	.3 or less	3

		NAMA
June	.7 or more	24
	.4 - .6	3
	.3 or less	3
July	.7 or more	18
	.4 - .6	5
	.3 or less	8
August	.7 or more	19
	.4 - .6	5
	.3 or less	7
September	.7 or more	19
	.4 - .6	3
	.3 or less	8
October	.7 or more	18
	.4 - .6	3
	.3 or less	10
November	.7 or more	18
	.4 - .6	4
	.3 or less	8
December	.7 or more	22
	.4 - .6	3
	.3 or less	6

d. Topography

The CHIMA WAN, a bay on the west coast of OKINAWA roughly divides the island in two parts. The northern portion is hilly with elevations up to 1500 feet. The southern half is less rugged and is better adapted for the development of a military base incorporating an anchorage, harbor improvements, flying fields, and other facilities ashore, being mostly of rolling and terraced hill land.

e. Hydrography

The most important feature of OKINAWA'S hydrography is the existence of two large bays on the eastern coast -- NAKAGUSUKU BAY and CHIMU BAY. These waters are extensive in area and offer good depths for anchorage. Large areas of land level enough for base development lie close to these protected waters. The chief difficulty in constructing ship unloading facilities is the width of the coral reefs which fringe the shores.

f. Water Supply

Because of the limestone formation of SOUTHERN OKINAWA, streams and other sources of water near the surface are scarce. Most of the many shallow wells to be found are polluted. It is believed that a sufficient supply of water can be obtained by drilling deep wells in certain areas. However, initially the employment of both distillation and purification units is indicated. NAHA had in 1936 a municipal water system supplying 400,000 gallons per day. It served 23% of the population as well as the wharves. There are 3,676 wells in the city, the water from which is polluted and unpalatable.

g. Survey of Airfield Sites

While complete topographic data is not yet available it is possible to locate existing airfields and tentatively select sites for others. Fields now operative or under construction are the NAHA Field (3 runways), MACHINATO (1 runway), KATENA (1 runway), YONTAN (3 runways), and YONABARU (1 runway). Some of these have well developed dispersal areas with revetments. The small island of ITO SHIMA has a field with three (3) runways and evidences of two more underway. Most of the possible sites lie in the coastal flats in the southern portion of OKINAWA but additional runways of fighter length may be feasible in the northern portion.

h. Health and Sanitation

(1) General

There is very little direct information as to health conditions on the target. Due to the climate, water supply, type of sewage disposal and number and type of civilian population on the island, it should be assumed that health conditions will be poor. Mosquitoes are numerous throughout the year.

(2) Civilian Population

There is a low standard of public health and medical facilities on

this island. Living conditions are inferior to those in JAPAN. Night soil is used as fertilizer. Rats and disease bearing insects are common. Some locally produced foods are said to be sufficient; however, rice must be imported. Nutritional deficiency diseases are present.

(3) Diseases

The following diseases will be of military importance:

Malaria

Enteric diseases (diarrheas, dysentery and parasites)

Scrub typhus

Dengue

Filariasis

Venereal diseases

Skin diseases

The following diseases are of potential importance:

Cholera

Plague

Relapsing fever

Schistosomiasis

Typhus

Tularemia

Yellow fever

i. Communication Survey

(1) Telephone, telegraph and cable

(a) Submarine Cable

OKINAWA has a submarine cable connection with FORMOSA and JAPAN via other islands of NANSEI SHOTO, and also with YAP. Terminals for these cables are in the vicinity of NAHA and SANAPI.

(b) Telephone and Telegraph Systems

NAHA is the center of a telephone and telegraph system connecting principal places on the island. Size and guage of the cables are unknown.

(c) All plans for communication installations should be prepared on the premise that no enemy equipment or material will be salvageable and that all necessary equipment must be supplied.

(2) Radio

Existing radio installations in OKINAWA Area are as follows:

IZENA SHIMA - one station - 45 miles North of NAHA.

OKINAWA - four stations within 3 miles of NAHA.

KUME SHIMA at GIMA - one station - 47 miles West of NAHA.

ZAMAMI or YAKABI SHIMA - one station - 17 miles West of NAHA.

AGUNI SHIMA - one station 32 miles Northeast of NAHA.

Existing lookout stations are as follows:

HEDO SAKI on Northern tip of OKINAWA.

KUME SHIMA.

CHIYAMU ZAKI on Southern tip of OKINAWA.

A power plant is located near NAHA NAIKO.

A radar tower is reported in vicinity of NAHA.

The southern portion of OKINAWA is apparently suitable for radio transmission and reception to East, South and West.

i. Public Utilities

(1) Electric Light and Power Facilities

The OKINAWA Denki Kaisha (Electric Company) supplies electricity for light and power in both NAHA and SHURI. The generators of this company are run by steam from coal-fired boilers and their capacity in 1938 was 2300 KW. It is believed that there are small generators in the larger villages and towns. No gas installations have been reported.

(2) Water System

The only extensive water piping system on the island was completed at NAHA in 1935. In 1938, it served 3,244 households with 400,000 gallons of water per day over 30 miles of pipe.

(3) Sewerage

NAHA has the only modern sewage system with $3\frac{1}{4}$ miles of pipe.

k. Military Government

See Next Page
Discussion will be issued separately at a later date.

l. Transportation

(1) Roads

The rugged terrain features of the Northern half of OKINAWA JIMA have

2. FACTS AFFECTING LOGISTICS.

k. Military Government.

(1) Characteristics of Inhabitants.

The population in 1940 was 442,497. This is a population density of about 1,000 per square mile compared to only 243 per square mile on SAIPAN. However, since the population is concentrated in the southern portion, the density in that portion which we expect to develop is far higher. There are two principal towns, one with a population of 65,700 and a second with 17,500. The population is more than 20 times that of GUAM while the area is only twice as great. The natives of this area are not true Japanese. The area was semi-independent with political and cultural ties with China until 1879. Since that date the Japanese have imposed their educational and political system on the natives with marked success. However, the fact that practically all governmental, educational and commercial posts are filled by Japanese from the main islands and the fact that mainland Japanese look down upon the natives has led to some degree of resentment.

These natives are the same type as those found upon SAIPAN and TINIAN as the latter emigrated from the OKINAWA area in search of better living conditions. In OKINAWA the great majority of the people are small scale farmers and fisherman. The standard of living is lower than on the main islands of Japan. Generally speaking the people are poorly educated and will be apathetic both towards our forces of occupation and towards making any effort to aid themselves under the occupation. The small element of the population from the main islands will, if possible, be repatriated by the Japanese before occupation and those who fall into our hands will be antipathetic and must be placed under detainment pending screening and probable internment.

(2) Plans for Administration.

(a) Law and Order.

No figures are available on the number of mainland Japanese we may expect to find. However, to provide for internment of these and of such elements among the natives as may be potentially dangerous, provision must be made for an internment camp capable of expansion to hold 10,000 people. During the

assault phase this camp will consist merely of a wire enclosure and emergency shelter constructed of salvaged materials.

(b) Labor

Central pools of laborers will be established under Military Government officers designated as labor supervisors. The allocation of laborers will be on a priority basis and under uniform wage scales established by the Island Commander. Payment of wages due will be centralized under Military Government finance officers and be chargeable to the allotment of funds made available to the service involved.

It is estimated that the Military Government section of the Island Commander's staff will be able to furnish upwards of 30,000 civilian laborers should any such number be required. The rate at which they could be furnished will depend on the rapidity with which civilians come through our lines and the extent to which they have been demoralized by the preliminary assault. Such labor, however, will be very largely unskilled and will require provision of interpreters and supervisory personnel.

(c) Finance.

CNO Top-Secret Serial 0210513 of 9 September advises that the JCS have approved in principle the issuance of supplementary military yen currency for use in troop pay disbursements, military government, and other official purposes. For the OKINAWA area 300,000,000 Yen of this currency will be provided initially. Other yen currency, which is legal tender in the area, will continue in circulation and will be inter-changeable at par with the Supplementary Military Yen. Transaction in any other currency will be prohibited. No exchange rate between the military yen brought in by our forces and U.S. dollars has been established to date. All supplemental military yen will be in the custody of Military Government finance officers. Allotments will be made on request to all military units for troop payments and other expenses.

(d) Industry

Sugar refining on a small scale is the only industry of even minor importance on the island. As in the case of SAIPAN it is expected the mills will be destroyed and the sugar cane fields will be required either for military installations or to produce subsistence crops for the civil population.

~~There are~~
There are unimportant iron, coal and sulphur deposits in the North Central section, salt beds and a small quarry in the southern section. The quarry could be worked for building or road-making materials.

The principal agricultural products are sugar cane and sweet potatoes. Sugar cane is the commercial crop and sweet potatoes the major subsistence crop. Small scale stock-raising is widespread and pork constitutes a major item in the native diet. Fishing is important to the native subsistence. It is estimated that the displacement of the population necessitated by the development of military installations on the best agricultural land plus the cessation of fishing, dispersal of livestock and the demoralized condition of the population will make necessary the importation of food for the civil population and that it will be a considerable period before this can be corrected in part by importation of seed and implementation of an agricultural program.

(e) Resources Useful to Us

Aside from labor and a very limited amount of building materials no resources can be expected. An agricultural program and restoration of fishing can contribute towards the support of the civilian population.

precluded the development of even the primitive road not found in most of the Japanese Islands. The developing of a road system sufficient for our military needs would involve considerable equipment and time. Railroad facilities are not known to exist in this area.

The southern half of OKINAWA JIMA has a population upwards of 300,000 people, which would indicate an intricate road net for the area. The only road known to support two lanes of traffic is a short stretch of a few miles connecting NAHA and SHURI. This road is surfaced with stone blocks. It is doubtful if it would support American military traffic. Roads that correspond to arterial highways, appear to be only 12 feet wide and of coral surfacing. Other roads are probably like our country lanes. The use of horse-drawn 30-inch narrow gauge railroads is evidence that local roads will not support ordinary traffic requirements.

Until aerial photographic coverage is available to indicate otherwise, it must be assumed that a complete rebuilding of the OKINAWA JIMA road net will be necessary. Such expedients as one-way traffic, separate routes for track-laying type of vehicles and rigid traffic control are indicated.

The study of local materials available for road construction and the nature of the terrain in the southern half of OKINAWA JIMA would indicate that excellent roads can be constructed with modern equipment. Three two-lane all-weather highways, in and out of NAHA, will be required for military purposes including the moving of cargo handled at the port. A like number of similar roads will be required for the movement of cargo, to and from discharge facilities on NAKAGUSUKU WAN.

(2) Railways

A 30-inch gauge steam railroad connects NAHA with West Coast communities on the southern half of OKINAWA. It is probable that these railroads have been used for transportation of the heavier military equipment used by the Japanese in the island fortification program. A cross-island branch also connects NAHA with YONABARU on NAKAGUSUKU BAY. To what extent the horse-drawn lines running south from NAHA to ITOMAN and north along the east coast from YONABARU can be adopted to military traffic cannot be determined at this time. Lack of information on the condition of road beds and equipment, and the probability of

destruction as a defense measure makes the use of the railway questionable.

m. Harbors

(1) Capacity

Little is known of the existing cargo handling capabilities either of NAHA Port or facilities on NAKAGUSUKU BAY. It is estimated that the existing waterfront facilities at NAHA will accommodate 50,000 MT per month and with improvement of shore transportation facilities increase to 105,000 MT per month. A moderate dredging program in NAHA Port to improve the channels for shallow draft vessels (LST, LCT, LSM, etc.) should increase the port capabilities by an additional 120,000 MT per month, aggregating a maximum of 225,000 MT per month one way. Present intelligence indicates that facilities in NAKAGUSUKU BAY will have to be new construction.

(2) Facilities

Existing facilities at NAHA consists of a 835 foot cement pier and a 475 foot cement pier, with approximately 18 feet of water alongside. The configuration of the harbor entrance precludes ships larger than an LST. It should be noted that the sinking of an LST within the harbor might immobilize the waterfront facilities. Aerial photography may disclose facilities in NAKAGUSUKU BAY of which we are not now aware. Additional facilities for small craft serving the fleet will be required.

(3) Berths

Bow and stern moorings to accommodate 10 ships will be required at NAHA. Ample anchorage areas are available at NAKAGUSUKU BAY.

(4) Development

Operations in the vicinity of NAHA will be from bow and stern moorings by large or landing craft to shore facilities. Piers or wharves for liberty ships are not practicable. Prevailing weather conditions make the use of pontoon type piers undesirable.

In the absence of intelligence to the contrary, it will have to be assumed that beach landings in NAKAGUSUKU BAY will accommodate discharge of cargo until shore facilities can be constructed. Development of 13 Liberty ship berths is desirable and should be constructed if practicable.

3. TROOP AND TONNAGE REQUIREMENTS

a. In setting up the troop lift and tonnage requirements, the following assumptions are made:

(1) Estimated tonnage lift per man

Org. Equip. Initial Maint.
and Const. Material

<u>Total Lift</u>	<u>Initial Lift</u>	<u>Later Echelon</u>
-----------------------	-------------------------	--------------------------

Divisional Corps & Army
Tactical Troops

5 MT	2	3
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All other Troops

10 MT	5	5
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Subsequent Maint. Requirements

.8 MT per man per month

(2) Loading Capacities without Stowage

AP's - 1500 personnel and 2000 MT

AK's - 9000 MT

ESTIMATED PERSONNEL LIFT

	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	8th Month	9th Month	TOTAL
Div., Corps, & Army Tactical Troops	159,000	43,000								202,000
Other Troops	25,000	27,000	40,000	20,000						112,000
Replacements		3,000	3,000	3,000	1,000					(Omitted from Population) 10,000
TOTAL TROOPS	184,000	73,000	43,000	23,000	1,000					324,000
Assault Shipping Lift	160,000	45,000								205,000
Flight Echelons	1,000	3,000								4,000
Garrison Shipping Lift	23,000	25,000	43,000	23,000	1,000					119,000
AP's Required	15	17	29	15	1					77
										(@ 1500 per AP)
POPULATION ESTIMATE										
Balance Forward	-	184,000	254,000	294,000	274,000	224,000	174,000	162,000		-
Total Troops from above	184,000	70,000	40,000	20,000						(Less Replacements) 314,000
SUB-TOTAL	184,000	254,000	294,000	314,000	274,000	224,000	174,000	162,000	162,000	
Withdrawals	-	-	-	40,000	50,000	50,000	12,000			152,000
Estimated Population	184,000	254,000	294,000	274,000	224,000	174,000	*162,000	162,000	162,000	(* Used as Basis for supply level)
ESTIMATED DISCHARGE CAPABILITIES IN MT	277,500	375,000	437,000	500,000	500,000	500,000	500,000	500,000	500,000	

Beach capacities estimated are for garrison type of cargo and are based on very meager information. A new study will be made as soon as aerial photographic interpretations are available. Experience in the IARIANAS indicates that assault type of cargo will exceed these estimates during the assault phase.

ESTIMATE OF TOTAL WT OF ORIGINAL EQUIPMENT, INITIAL MAINTENANCE AND CONSTRUCTION MATERIAL

Div., Corps & Army Troops @ 5 M.T. per man 202,000 x 5 equals 1,010,000
 Other Troops @ 10 M.T. per man 112,000 x 10 equals 1,120,000

TOTAL 2,130,000

ESTIMATE OF TONNAGE LIFT IN M.T.

	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	8th Month	9th Month	TOTALS
Maintenance @ .8 MT/man	147,000	203,000	235,000	219,000	179,000	139,000	130,000	130,000	130,000	260,000
Build-up Supply Level	-	27,000	36,000	67,000	130,000					
Civil Affairs **	9,000	27,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	
Div., Corps & Army Troop Totals	320,000	86,000								2,130,000
Other Shipping	125,000	200,000	200,000	200,000	180,000	343,000	352,000	124,000		
TOTAL	601,000	543,000	489,000	504,000	507,000	500,000	500,000	272,000	148,000	
Lifted in Assault Ship	320,000	80,000								400,000
Lifted in Garrison AP	30,000	34,000	58,000	30,000	2,000			(@ 2000 MT)		154,000
Lifted in AK	251,000	429,000	431,000	474,000	505,000	500,000	500,000	272,000	148,000	
AK Required *	28	48	48	54	56	56	56	30	16	
(* Less Assault Shipping to be reused to lift Rear Echelons of Tactical Troops)										
AK Involved (120 day turn around)	28	76	124	178	206	214	222	198	158	

** Tentative for estimation purposes only.

4. CONTEMPLATED DEVELOPMENT

<u>PROJECT</u>	<u>CONSTR. TROOPS REQUIRED</u>	<u>M. T. ORGANIZATIONAL AND SPECIAL EQUIP'T</u>	<u>CONSTR. DAYS TO PLACE IN OPER. STATUS</u>	<u>CONSTR. DAYS FOR FINAL COMP.</u>	<u>M. T. CONSTR. MATERIAL</u>
<u>Field #1</u>	1 - NCB - 1115	8959	40 days	180 days	17,300
4 VMF - 72 1 VMF (N) - 12			(Strip / 20% Taxiways & Hardstands)		
<u>Field #2</u>	1 - NCB - 1115	8959	20 days	150 days	17,300
4 VMF - 72 1 VMF (N) - 12			(Strip / 95% Taxiways & Hardstands)		
<u>Field #3</u>	1 - NCB - 1115	8959	30 days	180 days	17,300
4 VMF - 72			(Strip completed)		
<u>Field #4</u>	1 - NCB - 1115	8959	40 days	180 days	17,300
4 VMF - 72			(Strip / 20% Taxiways & Hardstands)		
<u>Field #5</u>	1 AvEngBn - 804	7140	(Activated for Fighters 3 days <u>after</u> seizure)	180 days	25,000
8 VBH - 96			40 days		
			(Strip / 30% Taxiways & Hardstands)		
<u>Field #6</u>	1 AvEngBn - 804	7140	(Activated for Fighters 3 days <u>after</u> seizure)	150 days	17,900
4 VBM - 64			20 days		
			(Strip / 80% Taxiways & Hardstands)		

PROJECT	CONSTR. TROOPS REQUIRED	M. T. ORGANIZATIONAL AND SPECIAL EQUIPMENT	CONSTR. DAYS TO PLACE IN OPER. STATUS	CONSTR. DAYS FOR FINAL COMP.	M. T. CONSTR. MATERIAL
<u>Field #7</u> 4 VBM - 64 1 Photo REC - 12 1 Combat Map - 12	1 AvEngrBn - 804	7140	(Activated for Fighters 5 days after seizure) 30 days (Strip / 85% Taxiways & Hardstands)	160 days	25,000
<u>Field #8</u> 2 PB(HL) - 24 2 VMTB - 36	1 - NCB - 1115	8959	(Activated for Fighters 5 days after seizure) 40 days	150 days	18,000
<u>Field #9</u> Seaplane Base 2 PB (MS) 1 RES SQN.	1 - NCB - 1115	8959	50 days (Strip, Taxiways and Hardstands Complete)	180 days	11,600
<u>Navy LION</u> 3 Engr. Cen. Bn. - 2845	7 - NCB - 7805	50981	120 days	180 days	109,000
<u>Army Storage & Facilities</u> Harbor and Waterfront Facilities	3 - NCB - 3345	27849	45 days	180 days	42,000
<u>Road Constr.</u> Misc. Constr. (dumps, Depot, Hq. Hosp. Rehab. Camps, Utilities, Civil Affairs, etc.)	3 - NCB - 3345 8 - NCB - 8920	21849 58264	- -	180 days 180 days	15,000 100,000
<u>TOTALS</u>	3 AvEngrBn - 2412 3 EngrBn - 2845 27 - NCB - 30,105	35,462 250317	Total Personnel		454,300

NOTE: (1) Measurement tons of construction material for airfields and LION includes BuDocks tonnage in standard components of ACORMS and LIONS, or equivalent for Army and Marine fields.
(2) Const. Days for operational completion are days required on the site by construction troops with their equipment.

5. EVACUATION PLAN

a. Casualties and Replacements

Estimate of Casualties

Dead and Missing	5,000
Local hospitalization	7,000
Requiring evacuation	<u>13,000</u>
Total Casualties	25,000

b. Surface Evacuation Facilities Required

Casualties will be evacuated by surface vessels from the target to the MARIANAS, supplemented by air evacuation as soon as suitable landing fields are available. Sufficient hospitalization will be provided in GUAM and SAIPAN to stage these patients. Evacuation from the MARIANAS to rear area hospitals in SoPac and OAHU will be by surface and air utilizing regularly established services as far as possible.

Surface shipping required. It is estimated that a total of 10 AH's will be required, to be utilized as follows: 2 AH's for Fleet Support, 2 AH's for evacuation between the MARIANAS and rear areas, 6 AH's for evacuation from target to MARIANAS. Evacuation from target will require the following:

	<u>Patients</u>
6 AH	9,000 (3 round trips)
3 APH	2,100 (1 trip)
13 APA	<u>1,900</u> (1 trip)
	13,000

c. Air Evacuation

Air evacuation facilities required:

<u>From</u>	<u>To</u>	<u>No. Patients Per Week</u>	<u>Provided by</u>	<u>Service Beginning</u>
Target	GUAM & SAIPAN	500	ComFwdArea	As soon as suitable air fields are established on target.
SAIPAN	OAHU	200	ComGenPOA (ATC)	D / 21
GUAM	OAHU	200	ComAirPac (NATS)	D / 21
GUAM	SOPAC	200	ComGenPOA (ATC)	D / 21

d. Care of Civilians

See Next Page
Instructions will be issued separately at a later date.

5. EVACUATION PLAN

d. Care of Civilians

(1) During the Assault Phase. 340,000 out of a total population of 440,000 live in the southern half of the Island. It is practically certain that they will be cut off from any possibility of escape to the northern section and that the principal city of 65,700 and the principal town of 17,500 will be largely or completely destroyed. Based on the estimated number of civilians in the area, the anticipated advance of our lines and assuming 10% killed, it is estimated that the number of civilians within our lines during progressive phases of the assault will be as follows:

D / 10	26,200
D / 20	52,680
D / 30	150,315
D / 40	306,000

Shipping restrictions will curtail issues of food and clothing and the supply of construction materials to the barest minimum consistent with sustaining life and curbing the spread of disease. Principal dependence must be put upon captured stocks of food, clothing and salvaged materials and to this end all units must be indoctrinated with the vital necessity for turning over all captured stocks and all captured transport for the use of Military Government. Provision must also be made during later phases of the assault for the salvage, transfer and temporary storage of all such material.

Food. Subsistence for assault and garrison phases will be calculated on the basis of an 1800 calorie diet which approximate 20 oz. per person per day. Requirements for the first 30 days are estimated at 2000 tons of which approximately 600 tons should be loaded in assault shipping.

Water. It is anticipated that all sources of water will be polluted and that provision must be made for the supply of potable water for civilians. Rigid enforcement of the principle of sterilization by boiling will be necessary. Water purification and distillation units will be provided on a basis of providing one quart of potable water per person per day for a total of 240,000 persons.

Shelter. Shelter provided in the assault phase will of necessity be limited to that provided for the wounded and sick.

Administration. Twelve (12) Military Government camp units staffed and equipped to administer 2500 civilians each and capable of expansion to 10,000 capacity during the garrison phase will be established. These camp units do not provide shelter other than for wounded.

Clothing. It is to be expected that large numbers of civilians will come into our lines in rags. No clothing is provided in the assault shipping. Clothes, cloth and findings for 60,000 adults and 60,000 children, approximating 225 measurement tons, should be echeloned in by D / 30. Stocks of Red Cross clothing now available on the WEST COAST should be utilized for this purpose.

(2) During the Garrison Phase.

(a) Housing and Camps.

The Military Government camp echelons installed in the Assault Phase will be expanded during the garrison phase by utilization of salvage materials. Housing and buildings, other than warehouses, which are still standing or which are capable of restoration will be utilized for billeting of civilians. Civilians will be billeted on other civilians in undamaged areas where practicable. In accordance with the policy enunciated in JCS 1074/1 of 1 November 1944 and CNO Top-Secret despatch 062252 of November, non-interned homeless civilians will be afforded the minimum shelter necessary for the avoidance of disease and unrest. Existing local resources of materials and labor will be exploited to the maximum and the importation of construction materials for civilian housing will be restricted to the amounts necessary to maintain the foregoing standard when local resources are exhausted. Interned civilians will be afforded shelter equivalent to that provided for prisoners of war.

(b) Medical and Hospital Facilities required for Civilians.

It is estimated that 10,000 beds may be necessary for the care of wounded civilians during and by the end of the assault phase. However limitations of shipping and procurement preclude the furnishing of medical facilities in that amount. In order to furnish required minimal humanitarian medical care reconciled with and adjusted to the limitation of shipping and procurement the following approximate type of medical care is outlined.

ASSAULT PHASE

Required Number	Unit	Off.	Men	Total	Meas. Tons	Remarks
15	G6	120	1185	1305	5400	200-bed Tent Hospitals.
25	G10	25	150	175	1250	Dispensaries for out-patient care with 10 beds each.
* 16	N2A	0	224	224	4208	100-man camp) Housing for Medical
* 4	N4A	0	12	12	592	25-man camp) Personnel
* 3	G14	0	0	0	6	Field Dental Units
1	G18	2	4	6	23	Epidemiology
TOTAL		147	1575	1722	11479	

GARRISON PHASE

2	G2	0	0	0	6272	600-bed Quonset
6	N5B	0	0	0	1566	Camp buildings to replace N2A about D plus 180
1	G4	16	172	188	1426	200-bed Quonset
1	G18	2	4	6	23	Epidemiology
TOTAL		18	176	194	9287	

* May arrive in later echelons.

TOP SECRET

6. LOGISTIC SUPPORT FOR THE FLEET

a. General

Fleet units will utilize the harbors of GUAM, SAIPAN, ULITHI and LEYTE for logistic replenishment. Replenishment will be effected by fleet oilers, ammunition ships, supply ships and Naval Supply Depots in GUAM, SAIPAN and LEYTE.

Limited ship repair facilities will be available at GUAM and in ServRon 10 located in ULITHI and MARIANAS. Limited floating repair facilities will be made available at LEYTE by ComServPac.

Floating storage, fuel, provisions and GSK supplies will be provided by ComServPac.

b. Fleet Ammunition

Surface ships supporting this operation will be loaded with full complement of ammunition. Replenishment ammunition will be provided in AE's and AKE's loaded on the WEST COAST and located at LEYTE, ULITHI, MARIANAS or as directed by Fleet Task Force Commander. A reserve of Fleet ammunition will be available at the Naval Magazine, SAIPAN, and Naval Ammunition Depot, GUAM. Details of loadings of AE's and AKE's will be furnished Fleet Task Force Commanders by CinCPOL.

c. Fleet Fuel

Prior to the sortie from ULITHI by the Fast Carrier Task Force on or about 15 February 1945, all ships, all fleet oilers, and all floating fuel storage at ULITHI will be filled to capacity. It is estimated that there will be available at ULITHI, in floating storage, approximately 600,000 barrels of fuel oil.

Fire support groups and assault forces mounting out from ULITHI, MARIANAS, LEYTE, and SoPac as well as fleet oilers and floating storage temporarily assigned to these locations will also be filled to capacity.

Consumption of fuel oil for all surface forces engaged in the operation is estimated at 6,600,000 barrels, covering a period of approximately 30 days from departure from the various mounting points.

Commercial tankers will continue to deliver their cargoes to ULITHI via ENIWETOK, using convoy system between these two bases. Diversions will be effected by CinCPAC as necessary to meet mounting and staging requirements.

Reserve fuel storage of 300,000 barrels will be available at KWAJALEIN, 450,000 barrels at GUAM, and 150,000 barrels at SAIPAN. Approximately 1,000,000 barrels will be available in SoPac forward storage, as well as 500,000 barrels at MANUS. These latter two storages will be available in emergencies only, subject to arrangement with ComSoPac and CinCSowesPac respectively.

It is estimated that PEARL storage will be not over 5,000,000 barrels as of 1 March 1945. The distance of 3,500 miles to ULITHI involving an average turn around period of approximately 26 days for commercial tankers places this reserve out of reach, as far as sustaining the operation is concerned once it has commenced.

Total estimated fuel required in the Central and South Pacific combined for the month of March covering the period of this operation may be summarized as follows:

ICEBERG Requirements	6,600,000 bbls.
SoPac Requirements	800,000 bbls.
MARSHALL-MARIANA-LEYTE Requirements	800,000 bbls.
PEARL Requirements	<u>800,000 bbls.</u>
TOTAL	9,000,000 bbls.

Fleet oilers are tentatively assigned for distribution during this operation as follows:

*Immediate support basing on ULITHI (Task Force Oilers)	30
Reserve support MARSHALLS-MARIANAS	4
Local support SoPac	2
Maximum under overhaul	<u>6</u>
	42

*Com5thFleet will assign fleet oilers from this group as required for temporary service during the mounting phase of Amphibious Forces in SoPac and at LEYTE. In addition to the reserve oilers assigned to MARSHALLS-MARIANAS support, Com5thFleet will spot oilers in the MARIANAS as required for Amphibious Forces staging through.

d. Potable Water

In addition to the above, the following 3 AO's and 1 AOG are assigned

to potable water service:

SEVERN	(A061)
OCKLAWAHA	(A084)
PONAGANSET	(A086)
TOMBIGBEE	(A0G11)

Each of the AO's carry approximately 100,000 barrels of potable water, plus the normal cargo of drummed lubricants and compressed gases of regular fleet oilers. The AOG carries 15,000 barrels of water. These vessels may be replenished at GUAM. Water supply is also available at MANUS and may be available at LEYTE, depending upon completion of water facilities at the latter base.

In the event the PASIG (AW3) and ABATAN (AW4) are completed in time they will be available for potable water service. Each of these vessels will have a distillation capacity of 120,000 gallons per day.

7. SUPPORT OF LAND BASED FORCES - GENERAL PLAN

a. Responsibility for Supply

ComGenPCA, ComGenFMFPac, ComServPac and ComAirPac will be responsible in accordance with existing policies for the initial supply of all units mounted in the Pacific Ocean Areas, and for the resupply of all personnel and organizations to be located on the captured objectives.

ComSoPac will be responsible for the provision of adequate areas and accommodations for the rehabilitation or staging of units moved to his area, and for the coordination of the logistic support of all elements of all services stationed in or mounted from his area.

b. Supplies to Accompany Troops

The following supplies, in general, will be necessary for the initial support of the operation:

Thirty (30) days of supply of all classes except ammunition.

Water in drums or in cans sufficient for 2 gal/man/day for five (5) days.

Five (5) CinCPAA units of fire for all ground force weapons except artillery and AA will mount with 7 U/F.

Aircraft munitions as follows:

Fighters

- 20 Missions

Search Bombers	- 5 Missions
Strike Bombers (VBH)	- 10 Missions
Strike Bombers (VMB)	- 12 Missions

c. Supply Levels to be Established and Maintained at the Objective

The following levels of supply will be necessary to furnish continuing support and to provide against losses in supplies from various causes:

Classes I, II, and IV (less construction materials)

Minimum level	- 60 days
Operating level	- 30 days

Class III (less Avn)

Minimum level	- 30 days
Operating level	- 30 days

Class III (Avn)

Minimum level	- 30 days
Operating level	- 30 days

Class V Ground Weapons

10 U/F

Class V Aircraft Munitions

Fighters	- 40 Missions
Search Bombers	- 10 Missions
Strike Bombers (VBH)	- 20 Missions
Strike Bombers (VBM)	- 24 Missions

d. Reserve Supplies

(1) SAIPAN

Class I - 30 days for 200,000 men

Class II and IV (less construction and aviation material) - 30 days supply for 4 Army Divisions (reinforced)

Class III (less Avn) - 30 days supply drummed products for force of 100,000 men.

Class III (Avn) - 1,000,000 gal. AvGas and related lubes in drums.

Class IV - 15 U/F for 1 Army Division

20 U/F for 1 155mm Gun Bn

15 U/F for 1 155mm How Bn

5 U/F for 1 Tank Bn (Army)

15 U/F for 1 AAA Bn (Army)

(2) GUAM

Class II and IV (less construction and aviation material) - 30 days supply for 2 Marine Divisions (reinforced)

30 days supply for 50,000 Navy personnel

Class III - 30 days supply drummed products for ground force of 100,000 men.

1,000,000 gal. AvGas and related lubes in drums.

Class V - 15 U/F for 1 Marine Division

20 U/F for 1 155mm Gun Bn (Marine)

15 U/F for 1 155mm How Bn (Marine)

5 U/F for 1 Marine AA Bn

(3) Service Squadron TEN

Service Squadron TEN, located at ULITHI and the MARIANAS will be stocked with the following supplies:

10 days supply in self-propelled ships of Classes I, II, III

(less Avn) and IV for -

Army - 80,000 men

Navy - 10,000 men

Marine Corps - 60,000 men

e. Method of Supply

The following method of supply is tentatively established.

(1) Prescribed stocks for this island will be built up to established levels within 150 days.

(2) All units will be mounted with 30 days of all classes of supplies except Class V, and with 5 U/F.

(3) Essential maintenance supplies for 30 days of all classes (except Class III Avn, and Class V) for all elements of the landing and garrison forces scheduled to be at the objective by D + 35 will be loaded on the WEST COAST and sailed approximately D - 40 to arrive at ULITHI on D - 5. This shipment will be held at ULITHI for forward movement on call of Commander Expeditionary Troops. This shipment will constitute the first re-supply shipment and should include one

ship fully loaded with drummed AvGas (30,000 drums) and matching lubes.

(4) The second re-supply shipment should be scheduled to arrive at ULITHI by D / 5 for movement forward on call of Commander Expeditionary Troops. This shipment should contain 20 days supply of all Classes (except Class III Avn and Class V) for all elements of the landing and garrison forces scheduled to be at the objective by D / 35. One ship fully loaded with drummed AvGas (30,000 drums) and matching lubes, will be included in the second re-supply shipment.

(5) Subsequent shipment of maintenance supplies of all Classes (except Class III Avn and Class V) for the support of the garrison forces will be loaded and despatched from the WEST COAST to arrive at ULITHI at 10 day intervals beginning with D / 15. These shipments will consist of approximately 15 days maintenance supplies until the prescribed levels are reached. Thereafter, only sufficient supplies will be included to maintain those levels.

(6) ComServPac will arrange for barges and IX tankers loaded as below. These tankers and barges will be available at ULITHI as indicated to be forwarded to objective on call of Commander Expeditionary Troops. If not called for they will be forwarded to objective as indicated.

<u>No. & Type</u>	<u>Capacity</u>	<u>Cargo</u>	<u>Ready Date at ULITHI</u>	<u>ETA Objective</u>
1 - AOG	12,000 bbl.	AvGas	D	D / 20
1 - AOG	12,000 bbl.	Av Gas	D / 10	D / 30
2 - AOG	12,000 bbl.	6000 MoGas 6000 Diesel	D / 15	D / 25
1 - IX Tanker	70,000	AvGas & Lubes 40,000 MoGas	D / 20	D / 35
1 - IX Tanker	70,000	24,000 Diesel	D / 20	D / 35

(7) Initially all fuel will be supplied in drums. Tank farms or other bulk storage will be provided as soon as practicable.

(8) Ammunition for re-supply of the landing forces will be loaded and despatched to ULITHI for shipment forward on call of Commander Expeditionary Troops. Shipments will be loaded and made as follows:

Five (5) LST's with Artillery ammunition to arrive ULITHI by D - 10.

Three (3) LK's each with 8 CinCPOA U/F for 2/3 of 1 Army reinforced division and 1/3 of 1 Marine division reinforced to arrive ULITHI by

D - 5.

~~TOP SECRET~~

Three (3) AK's similarly loaded to arrive ULITHI by D / 5.

Three (3) AK's similarly loaded to arrive ULITHI by D / 15.

Three (3) AK's similarly loaded to arrive ULITHI by D / 25.

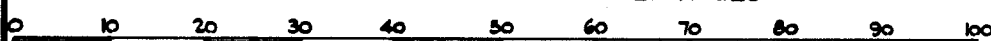
Three (3) AK's similarly loaded to arrive ULITHI by D / 35.

(9) ComFwdAreaCentPac will be prepared to make emergency shipments by air of rations, ammunition and medical supplies.

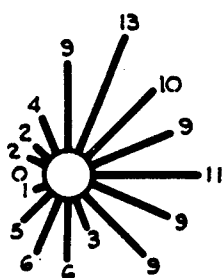
SEASONAL WIND ROSES

SHOWING PERCENTAGE FREQUENCY OF WINDS
AT A HEIGHT OF 0-3400 FT. AS RECORDED AT NAHA
WEATHER STATION.

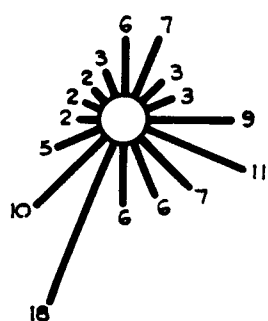
SCALE OF WIND PERCENTAGES



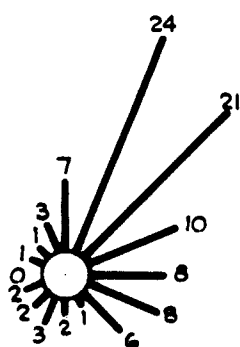
SPRING



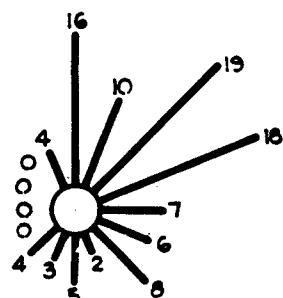
SUMMER



AUTUMN



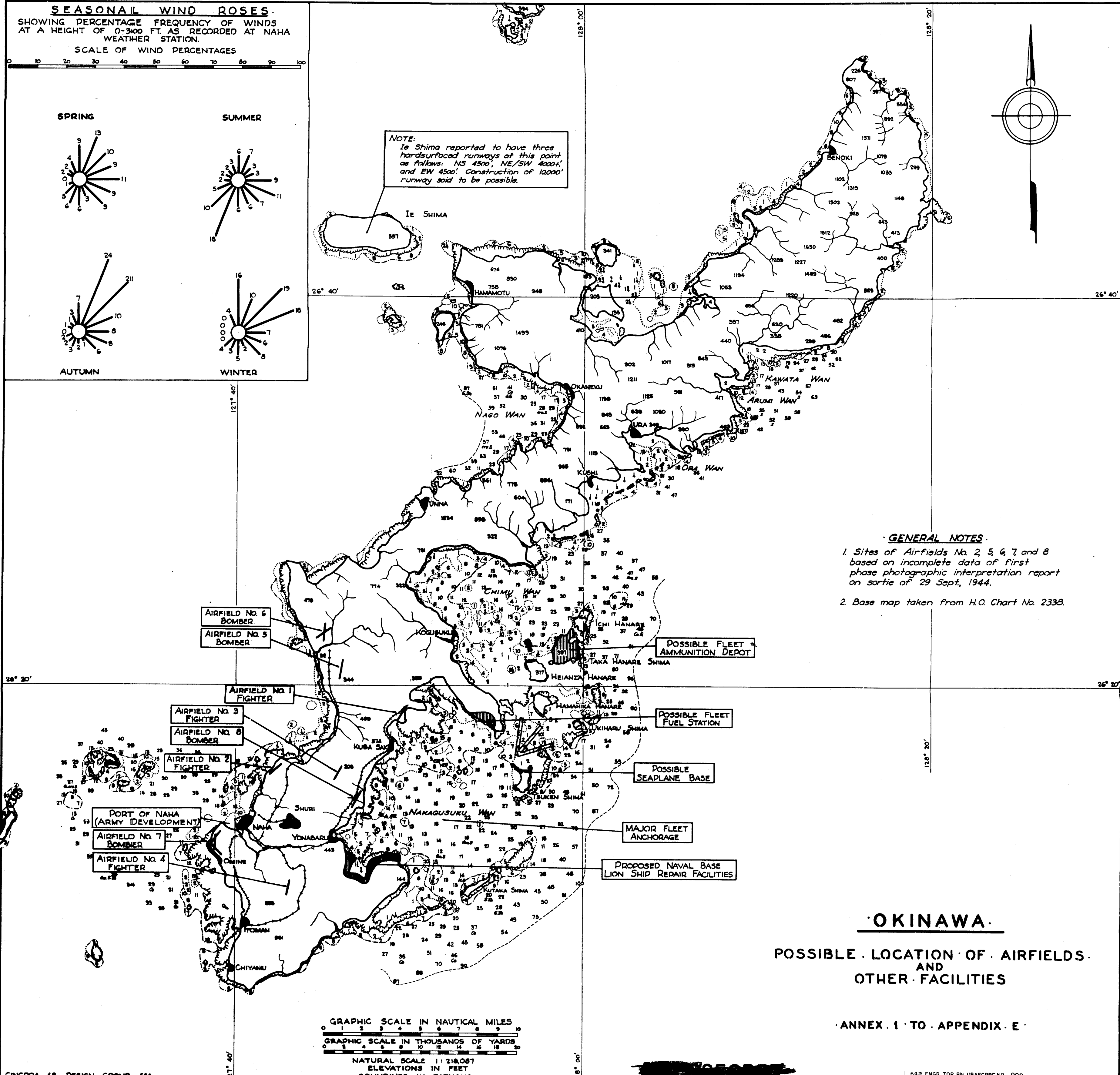
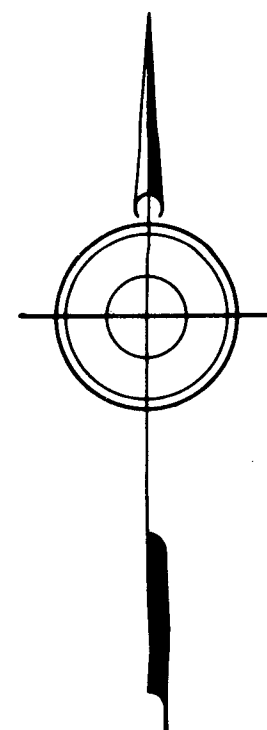
WINTER



NOTE:

Ie Shima reported to have three
hardsurfaced runways at this point
as follows: NS 4500', NE/SW 4000',
and EW 4500'. Construction of 10,000'
runway said to be possible.

Ie SHIMA



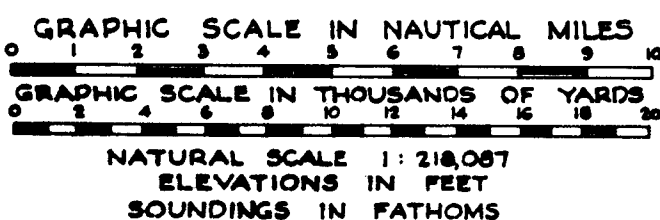
GENERAL NOTES

1. Sites of Airfields No. 2, 5, 6, 7, and 8
based on incomplete data of first
phase photographic interpretation report
on sortie of 29 Sept, 1944.
2. Base map taken from H.O. Chart No. 2338.

OKINAWA.

POSSIBLE LOCATION OF AIRFIELDS
AND
OTHER FACILITIES

ANNEX 1 TO APPENDIX E



LATER : 2 CV GROUPS
200 REPLACEMENT AIRCRAFT

4 VMF	72
-------	----

1 VMF (N)	24
-----------	----

4 VBM (B-25)	64
ARMY	

4 VMF	72
1 VMF (N)	24

8 VBH (B-24)	96
ARMY	

4 VMF	72
-------	----

4 VBM (B-25)	64
ARMY	
1 PHOTO REC. (P-38)	12

D+5
D+5
D+30

D+5
D+30

D+20
OR
EARLIER

D+40

D+30

D+40

D+50

D+50

D+30

D+50

TSUKEN SHIMA
SEAPLANE BASE

D+60

2 PB (MS)	24
TENDER BASED	
(D+2 TO D+60)	

4 VMF	72
-------	----

2 VMTB	24
--------	----

2 PB (HL)	36
1 COMBAT MAP. (B-24)	12

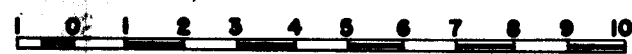
D+20 OR EARLIER
D+20
D+50

KEY

① INDICATES NUMBER OF AIRFIELD
FIGHTERS
— OTHER TYPES

OKINAWA
PROPOSED ASSIGNMENT OF AVIATION SQUADRONS

GRAPHIC SCALE IN STATUE MILES



NATURAL SCALE 1:218,078

ICEBERG

APPENDIX F

TROOP LIST

SUMMARY OF PERSONNEL

ASSAULT FORCE

(a) Total	238,009
(b) To be used in Garrison Force	82,944
(c) To be withdrawn	155,065

GARRISON FORCES

(a) To be moved to area	77,736
(b) To be provided by Assault Force	88,944
(c) Total	160,680

THIS TENTATIVE LIST OF ASSAULT AND SUPPORTING SERVICE TROOPS IS DEEMED THE MINIMUM FOR ACCOMPLISHMENT OF PHASE I OF THIS OPERATION ONLY. THEIR AVAILABILITY HAS NOT BEEN DETERMINED.

ASSAULT FORCE

ARMY CORPS

AMPHIBIOUS CORPS

(includes 2 in 'area reserve')

TOTAL

2 410

AAA UNITS

1-022	1	44
44-10-1		
44-12	3	207
44-15	2	1286
44-115	3	1935

ICEBERG

ASSAULT FORCE

FIELD ARMY

Navy

T/O No. Strength

Marine

T/O No. Strength

ARMY CORPS

Army

T/O No. Strength

AMPHIBIOUS CORPS

Marine

T/O No. Strength

AAA S/L Bn (SM)
AAA Bn AW Mob
AAA Bn AW SP
AAA Bn AW (SM)
AAA Bn - Marine

44-135 2 1694
44-25 1 817
44-75 1 709
44-125 3 2289

E-175 4 5040

TOTAL

9181

5040

NOTE: Arrival of AAA units except those required for the assault to be integrated to conform with construction of airfields.

ARTILLERY

Hq & Hq Btry Corps Arty
Hq & Hq Btry FA Group
155mm How Bn
155mm Gun Bn
Observation Bn (FA)
8 inch or 240mm How Bn

6-12 1 99

6-50-1 1 112 E-149 1 117
6-12 2 198
6-335 3 1617 E-135 3 1950
6-357 3 1686 E-185 3 2178
6-75 1 505

6-359 2 1178

TOTAL

1277

4118

4245

TANK DESTROYER

TD Bns

18-25 1 671

TANKS

Hq & Hq Tank Group
Tank Bns Medium

17-22 1 101
17-45 4 2916

(one medium tank Bn.
incl. orgn. in each
Marine Division)

LVT (Tank) Bns

17-115 3 2331

F-1020 1 869

TOTAL

5348

869

ICEBERG

ASSAULT FORCE

FIELD ARMY

T/O Army No. Strength

No. Strength

T/O Marine No. Strength

ARMY CORPS

T/O Army No. Strength

AMPHIBIOUS CORPS

T/O Marine No. Strength

MISC. TROOPS

Army M P Bn
Liaison Sqdn (Air)
Field Depot (reinforced)
Amphib Recon Bn

TOTAL

1252

2803

CHEMICAL

Maint Det
Depot Co
Chemical Bn Motorized

TOTAL

847

SIGNAL

Sig Const Bn
Sig Repair Co
Sig Radio Intelligence Coll-77
Signal Service Bn
Sig Bn (Corps)
Photo Co
Sig Oper Bn
JASCO
Sig Serv Bn (Sonic & Deception)

TOTAL

4386

844

1131

790

793

MEDICAL

Med Bns

8-15

2

930

1

465

1

374

ICEBERG

ASSAULT FORCE

FIELD ARMY

T/O Army
No. Strength

Navy
No. Strength

T/O Marine
No. Strength

ARMY CORPS

T/O Army
No. Strength

AMPHIBIOUS CORPS

T/O Marine
No. Strength

Amb. Co Mtzd Sep
Evac Hosp (400 beds)
Evac Hosp (600 beds)
Med Lab
Med Depot Co
Malaria Survey Units
Malaria Control Units
Epidemiological and
Malaria Team G-19
Surgical Teams

TOTAL

- 10 60

2227

334

540

606

FINANCE

Finance Disbursing
Sections

14-500

2

54

ORDNANCE

Gp Hq & Hq Det
Bn Hq & Hq Det
Bomb Disposal Sqds
Heavy Maint Co (FM)
Heavy Maint Tk Co
Depot Co
Maint Co AA
Med Auto Maint Co
Hvy Auto Maint Co
Ammo Co
MM Co
Evac Co

9-12 1 53
9-46 8 200
9-179 6 42
9-9 3 594
9-37 2 420
9-57 3 558
9-217 2 326
9-127 3 360
9-327 2 422
9-17 6 1116
9-9 6 1014
9-187 1 185

Ordnance units
in
Marine Field
Depot

TOTAL

5290

ICEBERG

ASSAULT FORCE

T/O	FIELD ARMY		T/O	ARMY CORPS		T/O	AMPHIBIOUS CORPS	
	Army	No. Strength		Navy	No. Strength		Marine	No. Strength

AVIATION SERVICE UNITS

Service Groups (Special)	Est	2	1400					
Hq & Serv Sq (MAG)								
AW Sqdns (11)								
AACS Det	1-447	1	110					
Base Hq & Air Base								
Sqdns	1-422	1	370					
Aviation Sqdns	1-999	1	253					
M P Co (Aviation)	19-217	1	104					

ENGINEER

Eng Hq Corps	5-100-1	1	72					
Eng Hq Army	5-16	2	170					
Hq & Hq Co Eng Comb Gp	5-15	3	1992					
Eng Combat Bn								

5-100-1 1 7
 12 85
 7968
 (3 per Corps)
 (3 per each of 3 Divs)

Eng Lt Pontoon Co	5-87	2	406					
Eng Treadway Bridge Co	5-627	2	288					
Eng Water Supply Co	5-67	1	141					
Eng Maint Co	5-157	1	200					
Eng Tpe Bn Army	5-55	1	467					
Eng Dump Truck Co	5-88	3	342					
Eng Lt Equip Co	5-367	2	246					
Naval Const Bn	P-1 Comp							
Mar Eng Sep Bn	5-47	1	218					
Eng Depot Co								

TOTAL

4542

806C

2012

(one per Mar Div (Navy))
 E-285 2 3348*
 2

ASSAULT FORCE

Included in

1960

Depot

9507

F-715

8462

2098

3405

12-601

ICEBERG

ASSAULT FORCE

	FIELD ARMY		ARMY CORPS		AMPHIBIOUS CORPS	
	T/O	<u>Army</u> No. Strength	T/O	<u>Marine</u> No. Strength	T/O	<u>Marine</u> No. Strength
Replacement Co	20-47	6	210			

TOTAL 332

GARRISON BEACH PARTY 3 240

MILITARY GOVERNMENT**

M P Bn	19-55	1	678			
Const Bn	P-1			1 (incl. in Engr Troops)		
Misc. Personnel	-		500			

TOTAL 1178

GRAND TOTAL 62323 7328* 13984 84839 69535

GRAND AGGREGATE TOTAL (ARMY, NAVY, MARINE) - 238,009

NOTES: * Includes 3348 Navy C.B. personnel listed in Marine Amphibious Corps Column.
** Tentative for estimation purposes only.

ICEBERG

GARRISON FORCE

FROM ASSAULT FORCES

ADDITIONAL

	<u>TOTAL</u>		<u>FROM ASSAULT FORCES</u>				<u>ADDITIONAL</u>			
	<u>All Services</u>		<u>Army</u>	<u>Navy</u>	<u>Marine</u>		<u>Army</u>	<u>Navy</u>	<u>Marine</u>	
<u>T/O</u>	<u>No.</u>	<u>Strength</u>	<u>No.</u>	<u>Strength</u>	<u>No.</u>	<u>Strength</u>	<u>No.</u>	<u>Strength</u>	<u>No.</u>	<u>Strength</u>
<u>ISCOM AND STAFF</u>										
Hq & Hq Bn	1	700				1	700			
<u>NAVAL BASE COMDR</u>										
Staff, NOB	1	250				1	250			
<u>SHORE BASED AIRFORCE COMDR STAFF</u>										
Hq & Hq Sqdn RS	1-800-15	1	256			1	256			
BOMBER COMMAND HEADQUARTERS	1	251				1	251			
MAW HQ	1	334							1	334
HQ & HQ CO SERVICE COMMAND	1	335				1	335			
CORPS HQ & HQ CO AND SPECIAL TROOPS	100-102 200-35-C	1	331			331				
TOTAL		2457		331			1542		250	334
DIVISIONS - Inf.	2	28400	2	28400						
<u>AVIATION</u>										
VMP - MAG	D-101	4	3468			4	3468			

ICEBERG

GARRISON FORCE

TOTAL

FROM ASSAULT FORCES

ADDITIONAL

All Services

Army

Navy

Marine

Army

Navy

Marine

T/O

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

AVIATION (Continued)

VMF(N) Sqdns

D-108

2

798

D-103

2

680

2

798

2

680

PB(HL) Sqdns

Photo Sq (incl Interp Sq)

1

500

2

410

1

500

F-5 Sqdns (Photo-Recon F-38) 1-757

1

342

1

342

2

3206

VBW Groups (B-25)

1-112 & 1-117

2

3510

2

410

2

3510

VBH Groups (B-24) 1-112 & 1-117

2

410

2

410

2

3510

TOTAL

13324

3548

410

4946

3510

910

AAA UNITS

Hq & Hq Btry AA Brig

44-1C-1

1

75

1

75

Hq & Hq Btry AA Gp

44-12

3

207

3

207

AAA Bn Gun Mobile

44-15

2

1486

2

1486

AAA Bn Gun (Sm)

44-115

3

1935

3

1935

AAA S/L Bn (Sm)

44-135

2

1694

2

1694

AAA Bn AW Mobile

44-25

1

817

1

817

AAA Bns Marine

3-175

4

5040

4

5040

AAA Bn AW Sp

44-75

1

709

1

709

AAA Bn AW (Sm)

44-125

3

2289

3

2289

TOTAL

14252

9212

5040

ARTILLERY

Hq & Hq Btry (Ft) Gp

6-12

1

99

1

99

ICEBERG

GARRISON FORCE

TOTAL

FROM ASSAULT FORCES

ADDITIONAL

All Services

Army

Navy

Marine

Army

Navy

Marine

T/O

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

ARTILLERY (Continued)

1 Hq & Hq Btry CA Gp
155mm Gun (CA) (Sm) Bn
155mm How Bn
155mm Gun Bn
Observation Bn

4-152 1 75
4-155 3 1614
6-335 3 1617
6-357 3 1686
6-75 1 505

3 1617
3 1686
1 505

1 75
3 1614 (D/45)

TOTAL

5596

3907

1689

MISCELLANEOUS TROOPS

T D Bn
Tank Bn (Medium)
M P Bn (Army)

18-25
17-45
19-35

1 671
1 729
1 556

1 671
1 729
1 556

TOTAL

1956

1956

CHEMICAL WEAPONS

Depot Co
Maint Det

3-67

1 184
1 41

1 184
1 41

TOTAL

225

225

SIGNAL

Port Sig. Serv Co
Sig Serv Organization
Sig Const Cos Hvy

11-327
11-27

1 165
1 550
2 504

1 550

1 165
2 504

ICEBERG

GARRISON FORCE

FROM ASSAULT FORCES

ADDITIONAL

	T/O	TOTAL		All Services		Army		Navy		Marine		Army		Navy		Marine	
		No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength
Sig Constr Bn	11-25	1	456	1	456												
Sig Repair Co	11-127	1	188	1	188												
Sig Depot Co	11-167	1	188									1	188				
Sig Radio Intelligence Co	11-77	1	259	1	259												

TOTAL

2310

1453

857

MEDICAL

Special Hosp #3 (aug)	1	355	1	355													
Special Hosp #4 (aug)	1	355															
Special Hosp #6 (aug)	1	157															
Special Hosp #7 (aug)	1	157															
Special Hosp #8 (aug)	1	157															
G-10 Dispensary	7	42															
G-18 Epidemiological Unit	4	32															
Optical Unit, Mobile	1	2															
Fleet Hospital #106 (1000 bed)	1	130															
Fleet Hospital #112 (1000 bed)	1	287															
Base Hospital #4 (1000 bed)	1	328															
Fleet Hospital #116 (1500 bed)	1	891															
Optical Unit Base	1	2															
Med. Storehouse #2	1	55															
Fleet Dental Clinic	1	24															
General Hospital (1000 bed)	2	1180										2	1180				
Station Hospital (500 bed)	2	702										2	702				

ICEBERG

GARRISON FORCE

TOTAL

FROM ASSAULT FORCES

ADDITIONAL

All Services

Army

Navy

Marine

Army

Navy

Marine

T/O No. Strength No. Strength No. Strength No. Strength No. Strength No. Strength No. Strength No. Strength

ORDNANCE (Continued)

Med Maint Co	9-9	4	676	4	676												
Ammo Cos	9-17	3	558	3	558												
Ord Auto Maint Co (Hvy)	9-327	1	211	1	211												
Hvy Maint Co. (FA)	9-9	1	198	1	198												
Ord Depot Co	9-57	2	372	2	372												
Bamb Disp Sqds	9-179	3	21	3	21												
Ord Med Auto Maint Co	9-127	2	240	2	240												
Hq Co Ord Base Gp	9-312	1	41														
Ord Base Auto Maint Bn	9-316	1	449														
Ord Base Arm Maint Bn	9-315	1	726														
Ord Tire Repair Co	9-347	1	145														
TOTAL			4091		2730											1361	

AVIATION SERVICE UNITS

Service Groups Special		4	2800	2	1400												
Hq & Serv Sqdns (MAG)	D-115, D-116	4	2600														
AW Sqdns (M)	E-691	4	920														
ACORNS (less CBS)		2	1000														
CASUs		1	420														
PATSU		1	316														
Airways Station (CT &RR)	1-447	1	152	1	110												
CBMTU	P-5	6	1662														
Base Hq & Adv Base Sqdns	1-422	3	370	3	370												
Aviation Sqdns	1-999	3	759	3	759												
M P Co (Aviation)	19-217	1	104	1	104												

ICEBERG

GARRISON FORCE

FROM ASSAULT FORCES

ADDITIONAL

TOTAL

All Services

Army

Navy

Marine

Army

Navy

Marine

T/O

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

AVIATION SERVICE UNITS (Continued)

Signal Co. (Aviation)

11-217

3 543

Det Weather Sqdn

1 75

TOTAL

11721

2743

3520

2060

3398

ENGINEER

Base Engr Hq

5-592

1 72

Hq & Hq Co Engr Const Gp

5-72

3 255

Engr Const Bn

5-75

3 2703

Engr Petroleum Dist Co

5-327

1 228

Engr Dump Truck Co

5-88

8 912

Engr Base Equip Co

5-377

4 184

Engr Hvy Shop Co

5-357

1 178

Engr Maint Co

5-157

2 400

Hq & Hq Co Base Depct Gp

5-592

1 75

Avn Engr Bn

5-415

3 2421

Engr Parts S Plat

5-567

1 59

Engr Firefighting Plat

5-503

5 145

Engr Serv Organization (EC)

5-500

5 290

S/L Maint. Team

5-500

3 9

Gas Generating Det

5-500

2 46

Engr Base Depot Co

5-267

1 160

Naval Const Bn (Avn)

P-1

5 5580

Naval Const Bn (LIOW)

F-1

7 7812

Naval Const Bn (Seaplane Base)

F-1

1 1116

ICEBERG

GARRISON FORCE

TOTAL

FROM ASSAULT FORCES

ADDITIONAL

All Services

Army

Navy

Marine

Army

Navy

Marine

T/O

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

ENGINEER (Continued)

Naval Const Bn (Harbor Const) P-1 3 3348
Naval Const Bn (Gen Const) P-1 6 6696
Naval CB Brigade Hq 2 156
Naval CB Regt Hq 6 402
Naval ABC Depot P-1 1 1116
Engr Water Supply Co 5-67 2 282
Engr Light Equip Co 5-367 2 246

1 141
2 246

3 3348
3 3348
2 156
6 402
1 1116

TOTAL

34891

1184

3348

7481

22878

QUARTERMASTER

Gas Supply Co 10-77 1 128
Truck Bn 10-55 1 487
Sterilization Cos 10-177 2 318
Laundry Cos 10-167 2 546
Salvage Repair Co 10-237 2 402
Depot Supply Co 10-227 2 388
QM Service Cos 10-67 6 1314
Graves Reg Plat 10-297 2 65
Salvage Collection Co 10-187 1 209
Bakery Cos 10-147 3 504
Hq & Hq Det QM Base Depot 10-520-1 1 154
Base Depot Co (Supply & sales) 10-387 1 130
Hq & Hq Det QM Bn 10-56 2 34

1 128
2 318
2 388
6 1314
2 65
1 209
3 504
1 154
34

1 487
2 546
2 402
1 130

TOTAL

4679

3114

1565

ICEBERG

GARRISON FORCE

TOTAL

FROM ASSAULT FORCES

ADDITIONAL

All Services

Army

Navy

Marine

Army

Navy

Marine

T/O

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

TRANSPORTATION

Hq & Hq Co Major Port
Port Cos
CBS (Special)
Base Cos
CB Rgt Hq
Pontoon Oper Bns
Truck Cos (M)

TOTAL

ADJUTANT GENERAL

Base Post Office
Base Censorship Det
Hq & Hq Det Rep Bn
Replacement Cos

TOTAL

NAVAL BASE UNITS

Garrison Beach Party
*LION
Naval Supply Depot
*P T Operating Base
*Standard Landing Craft Units

*For details see Annex I to Appendix F

ICEBERG

GARRISON FORCE

TOTAL

FROM ASSAULT FORCES

ADDITIONAL

NAVAL BASE UNITS (continued)

	T/O	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength	No.	Strength
*Rec. Station (2000 men)		1	199							1	199		
*Communication Units			1161								1161		
Fort Cargo and Trans Unit		1	206							1	206		
Fleet Canteen		2	50							2	50		
Officers Club		2	40							2	40		
Naval Ammunition Depot		1	incl. in LION pers.							1	incl. in LION pers.		
Aviation Supply Depot		1	400							1	400		
TOTAL			12498								240		
											12258		

MILITARY GOVERNMENT **

Central Administration			45										
Public Safety (MP Bns)	-19-55	2	1356	1	678			1	678			45	
Finance and Supply			80										
Economics			55										
Law and Courts			32										
Property Custodian & Claims			25										
Engineering Public Serv (C Bn)P-1		P-1	1116					1	1116				
Public Welfare			130										
Intelligence, Interpretation Public													
Relations													
Labor			230									230	
Transportation			65									65	
			55									55	

*For details see Annex I to Appendix F
 **Tentative for estimation purposes only
 ***500 Army personnel included in assault force

ICEBERG

GARRISON FORCE

FROM ASSAULT FORCES

ADDITIONAL

TOTAL

T/O All Services T/O Army T/O Navy T/O Marine T/O Army T/O Navy T/O Marine

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

No. Strength

MILITARY GOVERNMENT (Continued)

Camp (250 men) N1A
Camp (100 men) N2A
Hospital (600 bed) G-2
Dispensary G-9
Camp M5C
Dispensary, Dental, G-12

8 176
4 44
4 1400
8 40
8 -
16 32

8 176
4 44
4 1400
8 40
8 -
16 32

TOTAL

4881

1178

1116

895

1692

334

GRAND TOTAL

160680

62124

7314

13506

24981

52421

including (a) from Assault 82944

(b) Additional Units 77736

ICEBERG

ANNEX I

TO

APPENDIX F

LION

	<u>Unit</u>	<u>No. of Units</u>	<u>Personnel</u>
A-1	Administration	1	175
A-5	Intelligence	1	9
A-7	Shore Patrol	3	69
B-1	H.E.C.P.C.	2	54
B-2	Underwater Detection (Augmented)	1	102
B-4(F)	Port Director	1	114
B-4(G)	Harbor Patrol	2	58
B-5(A)	Boat Pools	2	56
B-6	Surface Radar	2	90
B-8	Minesweeping	2	4
B-9	Fleet Moorings	1	-
B-10	Navigational Aids	1	-
C-10	F.P.O. (Augmented)	1	25
D-1	Storage Facilities (Augmented 50%)	1	975
D-3	Tank Farm	1	16
D-11	Drum Filling Plant	1	101
D-13	Cobbler & Tailor Shop	1	11
D-19	Material Recovery Unit	1	33
E-1	Combined AR, AS, AD	2	1528
E-5	Ship Servicing	1	89
E-6	Mobile Amphibious Repair	1	520
E-8	Small Boat Repair	1	68
E-13	Minesweeping Equipment Repair	1	10
E-16	Oxygen Plant	2	24
E-17	Acetylene Plant	1	6
E-18	CO ₂ Transfer	1	4
E-19	Typewriter Repair	2	2

ANN I

ICEBERGLION (Cont'd)

	<u>Unit</u>	<u>No. of Units</u>	<u>Personnel</u>
G-2	Hospital (600 bed)	1	193
G-8	Dispensary (25 bed)	3	42
H-14(A)	Tank Farm, MoGas	1	-
J-1	Base Ordnance	1	16
J-2	Machine Gun Component	1	6
J-3	Ammunition Component	20	360
J-5(A)	Torpedo Depot	1	57
J-10	Optical Shop	1	5
J-11(A)	Mine Assembly Depot	1	69
J-11(E)	Depth Charge Testing Component	1	4
J-12(A)	Net Component	1	70
J-13(B)	Degaussing Component	1	21
N-7(A)	Camps (1,000 men)	7	567
N-8(C)	Camp Buildings (Northern)	7	-
N-9	Base Recreation	1	-
N-10	Base Education	1	2
N-12	Laundry	6	30
N-6(A)	Bakery	3	54
P-2	Construction Equipment	1	-
P-8	Port Development	1	-
P-9	Wooden Pier	4	-
P-10	Pontoon Assembly Plant	1	557
P-11	Truck & Equipment Overhaul Plant (Augmented 50%)	1	835
P-12	Fire Fighting Component	1	-
	TOTAL		7,031
	<u>P.T. Operating Base</u>		
A-4	Administration	1	10
C-3	Radio	1	10
C-8	Visual	1	-

ICEBERG

	<u>Unit</u>	<u>P.T. Operating Base (Cont'd)</u>	<u>No. of Units</u>	<u>Personnel</u>
E-11	P.T. Operating Base Repair		1	134
G-10	Dispensary (10 bed)		1	4
J-2	Machine Gun		1	4
J-4(C)	Base Demolition		1	-
J-6(A)	Field Torpedo Circus		1	11
N-1(A)	Camps (250 man)		2	44
N-5(C)	Camp Bldgs. (North)		2	-
N-9	Base Recreation		1	-
P-6(D)	Fire Protection, etc.		1	-
	TOTAL			217

	<u>Standard Landing Craft Units (2)</u>	
A-3	Administration	96
E-10	SLCU Maintenance	122
G-8	Dispensary	28
N-1(A)	Camps (250 man)	132
N-5(C)	Camp Bldgs. (Northern)	-
	Boat Personnel	582
	Estimated Additional Boat Crews	<u>2,000</u>
	TOTAL	2,960

	<u>Receiving Station (2,000 man)</u>	
A-3	Administration	48
N-7(A)	Camps (1,000 man)	81
N-7(C)	Camp Bldgs. (Northern)	-
G-7	Dispensary (50 bed)	<u>70</u>
	TOTAL	199

	<u>Navy Communication Units</u>	
Mobile Units	-	<u>375</u>
Administrative Dets.	-	92
Garrison Units	-	<u>390</u>
Camp - Administration	-	130
FruPac	-	<u>174</u>
TOTAL		1,161

Al6/Ice

UNITED STATES PACIFIC FLEET
AND PACIFIC OCEAN AREAS
Headquarters of the Commander in Chief

Serial 000170

21 December 1944

~~XXXXXXXXXX~~

From: Commander in Chief, U.S. Pacific Fleet and
Pacific Ocean Areas.
To : Distribution List.
Subject: Changes to Joint Staff Study, ICEBERG.
Reference: (a) CinCPOA serial 000131 of 25 October 1944.
Enclosures: (A) Appendix G to Joint Staff Study ICEBERG,
with Annex 1, Logistics Measures and
Annex 2, Troop List.
(B) Appendix H to Joint Staff Study ICEBERG,
with Annex 1, Major Forces Required.

1. Enclosures (A) and (B) are forwarded herewith for insertion in reference (a). Additional annexes to Enclosure (B) will follow. Change Table of Contents to reflect addition of these appendices.

2. These enclosures will constitute the bases for logistic preparation and procurement of forces.

FORREST SHERMAN
Deputy Chief of Staff

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CominPac (1).....	172	

R E Keeton
R. E. KEETON,
Assistant
Flag Secretary.

~~TOP SECRET~~

ICEBERG

APPENDIX G

PHASE II

SEIZURE OF IE SHIMA AND OPERATIONS
ON OKINAWA SUBSEQUENT TO PHASE I

1. GENERAL

Phase II will be initiated as soon as it is apparent that the necessary combat troops and fire support ships may be diverted from Phase I Operations. This date, W-Day, will be selected by the Commanding General Expeditionary Troops. For planning purposes W-Day is assumed to be D plus 30.

The scheme of maneuver will be designed to provide early seizure of IE SHIMA and initiation of a major airfield development, and occupation of OKINAWA to the extent required for security of our installations on IE SHIMA and establishment of control over the entire island of OKINAWA.

There is insufficient information available at present to warrant the assumption that favorable sites for air or naval development will be secured in the northern portion of OKINAWA.

2. GROUND FORCES

It is estimated that in this phase the seizure of IE SHIMA and OKINAWA southwest of a line joining KAWATA WAN (26° 38' N 128° 9' E) and SHANA WAN (26° 40' N 128° 7' E) will require two corps of two divisions each. One corps will probably be employed in a land advance to the northeast from positions held at the conclusion of Phase I. The other corps will be available for amphibious operations to seize IE SHIMA and MOTOBU PENINSULA and to envelop Japanese forces opposing our land advance.

After the line KAWATA WAN - SHANA WAN has been established, the Commanding General Expeditionary Troops will

~~TOP SECRET~~

proceed to gain control of the remainder of the island to such a degree as to assure the security of our position. A corps of three divisions should be sufficient to establish and maintain this control throughout OKINAWA JIMA and IE SHIMA, thus making it possible to release the remaining divisions for third phase operations.

As soon as it becomes evident that Japanese forces have been disorganized and enemy capabilities reduced to ~~passive~~ resistance the number of divisions in the OKINAWA - IE SHIMA Area may be reduced to two.

3. AIR FORCES

IE SHIMA will be developed as an air base for the operation of two heavy bomb groups and two long range fighter groups. It is estimated that these fields will be operational for fighters by W / 10 and for bombers by W / 50.

Alternate

The tactical situation in Phase I may require early capture and initial development of IE SHIMA, with forces provided for Phase I, in order to provide additional shore based air support. In this case the two fighter groups, one Army and one Marine, with supporting and service troops, scheduled for installation on OKINAWA will be utilized for this contingency. If so used, the facilities acquired at IE SHIMA will make acceptable a delay in activation of two airfields on OKINAWA. If such a diversion of forces is made those listed herein will be available for activation of airfields on OKINAWA.

4. NAVAL FORCES

Upon completion of Phase I, it will be desirable for reasons of security to retain in the immediate area only those units of the fire support force as will be required for the

FORCES REQUIRED

prosecution of Phase II. It is estimated that this will comprise about one half of the fire support force initially committed. This reduced force will be available to support the shore-to-shore operation against IE SHIMA, and the advance northward on OKINAWA as required.

It is expected that a covering force of reduced strength, carriers and battleships, will be required to remain within striking distance of OKINAWA throughout Phase II and for an indefinite period thereafter in order to prevent enemy surface ship raids, to augment the shore based air defenses, and to strike adjacent enemy positions.

Landing craft will be retained in sufficient numbers to implement the shore-to-shore assault on IE SHIMA, to provide means for shore-to-shore amphibious assaults in the northern part of OKINAWA and for use in unloading cargo ships supporting the operation.

No naval facilities other than small craft repair and minor harbor services are planned for IE SHIMA. It is expected that various bays and inlets will be discovered in the northern portion of OKINAWA which will be suitable for PT bases and for other small craft anchorages. It is not intended that any provision be made at the present time for naval shore establishment or nets except in NAKAGUSUKU WAN, KERAMA RETTO and NAHA; destroyer mooring buoys and secondary navigation buoys however should be available for several small craft anchorages which are expected to become available.

5. FORCES REQUIRED

a. Ground Force

From

IE SHIMA

Assault

1 Division

Phase I

Garrison

1 RCT
1 Bn AAA Gun (reinf)
(Army)

From

Assault force

OKINAWA

As directed by ComGen
10th Army

Phase I

b. Air Forces

IE SHIMA

Garrison

2 Gps VBH (Army)
2 Gps VF (Army)
4 Air service groups
(Sp)(Army)
2 Avn Engr Bns
1 A.W. Squadron

1 PALAU - 1 U.S.

U.S.

1 PALAU - 3 U.S.

MARIANAS if available,
or U.S.

c. Naval Forces

Covering Force

3 CV 3 CL

1 CVL 18 DD

2-3 BB

2 CB or 3 CA

Fire Support Force

4 OBB 18 DD

2 CA 9 LCI(G)

2 CL

Air Support Force

None

Assault Shipping

30 LST 50 LCM

36 LCI(L) 150 LCVP

20 LSM

Base Defense & Support Force

None

d. Service Units - See Annex 2.

ICEBERG

ANNEX 1 TO APPENDIX G

LOGISTIC MEASURES - PHASE II

1. GENERAL

In addition to the logistic measures discussed in Appendix E to Phase I the following factors applicable to Phase II are significant.

2. FACTS AFFECTING LOGISTICS

a. Terrain

IL SHIMA lies on the northwest side of OKINAWA at a distance of three miles from the tip of MOTOBU PENINSULA. It is a limestone island, roughly oval in form, five miles long and two miles wide. This island contains approximately 5500 acres, nearly all of which area is sufficiently level for development purposes. The island is topped by a nearly level plateau which averages about 150 feet above sea level. This area appears to have been intensively cultivated. Near the eastern end is a volcanic plug about 555 feet high called IKOSUKU YAMA or "Sugar Loaf" at the south base of which lies a large village. A major air base development has been undertaken by the enemy.

b. Water Supply

It is believed that an ample supply of water can be developed by drilling wells in the center of the island down to approximately sea level. In the case of this island a depth of 150 - 200 feet is indicated. The enemy has probably developed a water supply system which might be salvaged.

c. Harbors

There is no sheltered anchorage area adjoining the island. Berthing facilities are few and concentrated near the village on the southeast shore. This is the leeward side of the islands for the prevailing winds of northerly directions. These facilities are located on embayments in the coral reef on the Southeast shore. They appear to be of solid construction. The wharf on the west side is not yet completed.

ANN

It does not appear that the water alongside these structures is deep enough to accommodate anything but small boats or barges at high tide. There is no protection for small craft against southerly blows and it seems not unlikely that the small developed harbor at TOGUIGHI Harbor (dredged to 6½ ft. in 1939) may serve for the transshipment of supplies for the support of the IJIMA Air Base, particularly during a period of winds from the south.

In view of the difficulty or impossibility of providing protected berthing for large ships here lightering must be considered as the only practicable means of supply. Tanker moorings could be installed on the south side of the island for delivery of fuel by submarine hose.

d. Beach Capacities

The southern and eastern shores have four firm, coral and sand beaches from 9 to 35 yards wide and 125 to 900 yards long. The remainder of the island is bounded by rocky sea-cliffs.

A fringing reef 360 to 720 yards wide with scattered coral heads, and without channels, borders the island.

Moderate slopes lead inland from all beaches, rising about 20 feet to a border of casuarina trees. Scattered clumps of trees form two rather distant lines between the casuarinas and the airfield.

Interruption of the tree fringe behind the beaches, and breaks in the slope offer good exits in addition to the roads and trails leading inland from all beaches. These roads join with the predominantly east-west road net which links all portions of the island. Several of the roads appear to be about six to eight feet wide and unsurfaced, although several such as the southern coast road, 135 yards inland, are about 12 feet wide and coral surfaced.

It is estimated that the above beaches will afford unloading capacities totaling 75,000 MT/Mo.

3. CONTEMPLATED DEVELOPMENT

a. Airfield Development

IE SHIMA is well adapted to the construction of flying fields because of its relatively level terrain. Approach conditions are over water and are ideal. Much enemy construction here can conveniently be used again.

Photographic coverage shows four parallel runways which can be made ready in a comparatively short time.

Field No. 1. Photographic coverage of 10 October 1944 showed that this runway was cleared by the enemy without any grading.

Field No. 2. The runway was graded and surfaced to a length of approximately 5000 feet on 10 October 1944. A cross runway 4300 feet long, together with taxiways and hardstands, had also been completed at that date, and can probably be used again. It is planned to increase the main runway to 7000 feet for use by VBH.

Field No. 3. As of 10 October 1944 one runway at this field was operational for a length of approximately 5100 feet. A taxiway system with hardstands was partly completed, and a second runway at an angle seems to have been under construction. It is proposed to recondition the present runway for fighter planes without adding to its length.

Field No. 4. This field will be of entirely new construction at the east end of the island. It is to have a runway of 5500 feet in length.

Ready Dates. Estimated ready dates for airfields on IE SHIMA are tabulated below. These dates are predicated on:

- (1) Employment of three (3) Aviation Engineer Battalions.
- (2) Availability of the sites for commencing work by W / 5.

<u>Field No.</u>			
1	2	3	4
Operational for VF (4500' runway)	W/10	W/10	W/50
Operational for VBH (6000' runway)	W/90	W/50	

Final completion of the entire development is estimated at W / 230, and will provide for 5500' runways for VF and 7000' runways for VBH Fields.

b. Naval Facilities

No facilities for support of Naval Units other than small craft is contemplated.

c. Harbor Development and Waterfront Facilities

Installation of tanker and AvGas and MoGas barge moorings off southern shore for delivery of AvGas and MoGas by submarine line.

Transshipment from OKINAWA utilizing small craft will not be practicable during the early stages of development. Personnel and equipment for unloading AKs and APs from moorings at IE SHIMA must be provided during this period. Subsequent to the establishment of adequate port facilities on OKINAWA and when the inbound traffic on that island has passed its peak, transshipment from OKINAWA to IE SHIMA in small craft may be resorted to and some labor on IE SHIMA may be relieved. At this time the amount of labor required on OKINAWA will be increased accordingly.

Installation of AK moorings off southern shore with utilization of individual ship protective nets.

Installation of aids to navigation.

4. MEDICAL FACILITIES AND EVACUATION POLICY

a. Estimate of Casualties:

Dead and missing	800
Local hospitalization	800
Requiring evacuation	<u>2,400</u>
Total Casualties	4,000

b. Evacuation

Casualties will be evacuated by available LHS, APHS and APA to the MARIANAS. If LSTs or smaller vessels are utilized, casualties will be evacuated to OKINAWA for further evacuation by surface or air.

~~TOP SECRET~~

c. Hospitalization

Initially, hospitalization will be provided by mobile hospital units. Subsequent to the assault phase, hospitalization will be provided as directed in the base development plan, and as indicated in the garrison troop list.

d. Medical Care for Civilians

Assault: Estimated casualties, 700. Requiring hospitalization, 350. During the assault phase, civilian casualties will be handled by medical units designated for Military Government, assigned to the assault division. After the assault phase, civilians will be cared for by medical units designated for Military Government. Civilian casualties will not be evacuated from the island.

Garrison: Medical care of civilians by units assigned to garrison forces.

5. SUPPORT OF LAND BASED FORCES

a. Method of Supply

The primary method of supply will be by direct maintenance shipments from the West Coast.

When practicable the supply of Assault and Garrison Forces will be by utilization of LCTs, LSTs and other small craft from the port of NAHA or other accessible loading points on OKINAWA. Due to lack of facilities and heavy requirements for OKINAWA, transshipment may not be practicable in the early stages.

Provision should be made for AK moorings to unload at IE SHIMA any ships of regularly scheduled maintenance shipments, or any other cargo ship, assigned to the support of this operation.

b. Responsibilities for Supply, Levels of Supply and Supplies to Accompany Troops

The same general provisions as obtained in Phase I will apply in Phase II.

c. Shipping Instructions

A separate shipping designation for IE SHIMA will be assigned to

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facilitate direct maintenance shipments to this port.

6. MILITARY GOVERNMENT

a. Assault Phase

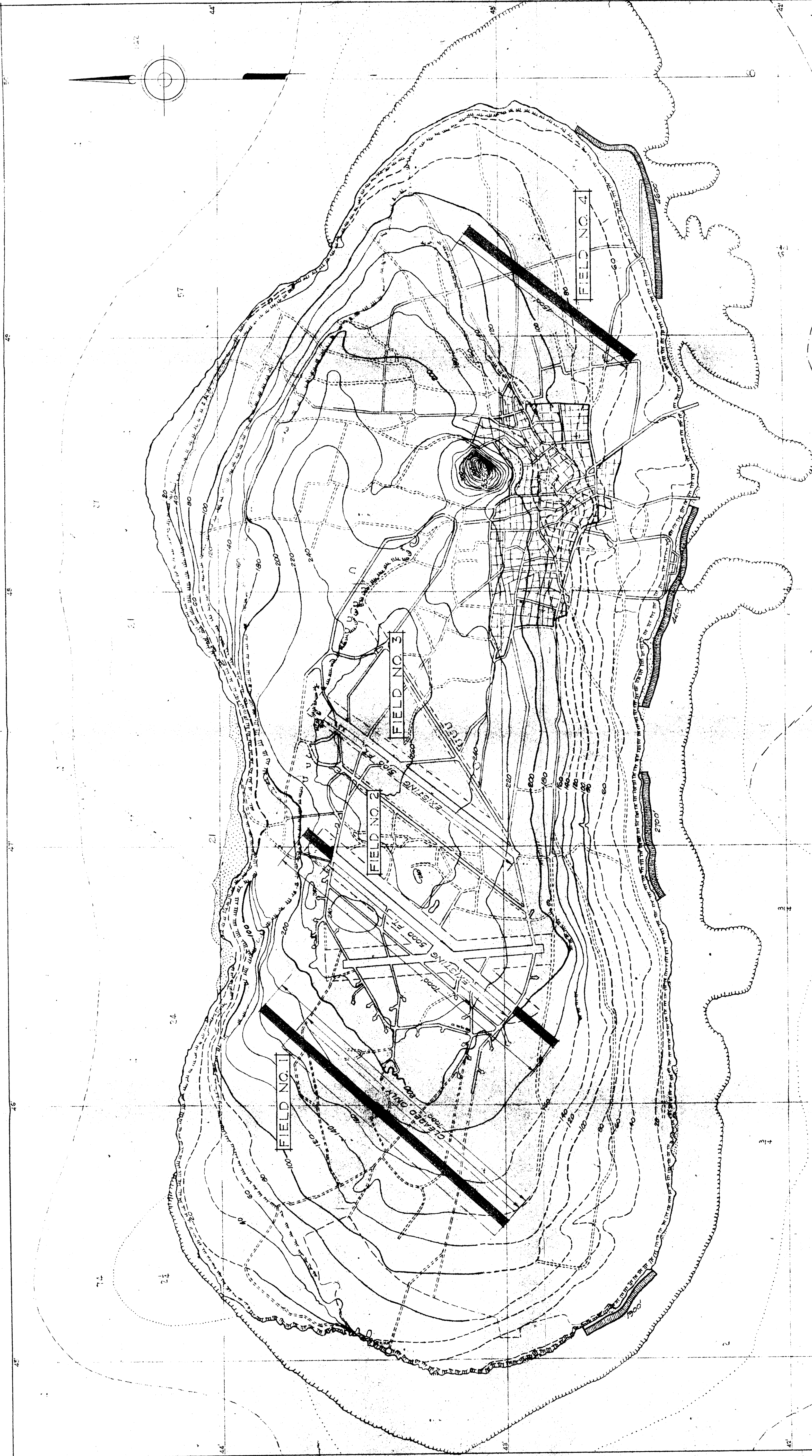
During the assault phase Military Government functions in IE SHIMA will be performed by the Military Government detachments, including medical, which are regularly assigned to the assault division.

b. Garrison Phase

Upon completion of the assault phase, the Military Government detachments assigned to the assault division will revert to the control of the garrison commander. These detachments will be augmented when practicable by one Military Government Camp Unit to be carried in garrison shipping. This unit is in addition to those previously provided for Phase I.

7. SERVICE TROOPS

Unless otherwise indicated in Annex 2 to Appendix G - Phase II, all service units will be in addition to those listed for Phase I.



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ICEBERG
ANNEX 2 TO APPENDIX G
TROOP LIST - PHASE II

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UNIT	T/O	ASSAULT			GARRISON			Mounting From	REMARKS
		Army	Navy	Marine	Army	Navy	Marine		
Division (Reinforced) Amphibious trained and equipped for independent operation including Garrison Beach Party. JASCO Civil Affairs Team	-	1 - 24500	500		1 - 5000	200		Phase I	One (1) RCT with appropriate medical units in Civil Affairs Team will remain in garrison phase. Add- itional Civil Affairs Team will arrive later.
		24500	500		5000	200			

Note: Unless otherwise indicated all units will mount from U.S.

AVIATION									
VBH Groups	1-117				2 - 3564				PALAU (1)
VF Groups	(1-37				2 - 2274				
	(1-12								
	(1-452				4 - 2632				PALAU (1)
	(1-458								U.S. (3)
	(1-457								
	E-691								
	1-422								
Serv. Group Spec	-				2 - 202				
	1-999				1 - 15				
					1 - 252				
					8939				
							230		

ANTI-AIRCRAFT									
Hq & Hq Btry, Gp	44-12				1 - 73				
Gun Bn Sem (A), plus 2 -	44-115				1 - 631				
Gun Btries Scom (A)	44-117				2 - 248				
AW Bn com, plus	44-125				1 - 787				
2 - AW Btries	44-127				2 - 328				

UNIT		T/O		ASSAULT		GARRISON		Mounting		REMARKS
				Army	Navy	Marine	Army	Navy	Marine	From
<u>ANTI-AIRCRAFT (Cont'd)</u>										
S/L Btry (B) (less radar), plus 1 - Plat (less radar)		44-138 44-138					1-147 1- 52			
<u>FINANCE</u>										
in Disb Sec (AB-BG-CA-DC types)		14-500					1- 22 22			
<u>MEDICAL</u>										
Evacuation Hospital (SM) 400-bed		8-581	1-246							Depart with Assault Div. less nurses. W/Nurses
Station Hospital 500-bed		8-560					1-337			
Malaria Survey Unit (FB)		8-500					1- 13			
Malaria Control Unit (FA)		8-500					1- 12			
<u>ORDNANCE</u>										
Medium Maint Co		9- 9					1-169			Only 3rd Ech. Maint.
Ord Dep Co		9-57					1-186			
Ord Med Auto Maint Co		9-127					1-120			Only 3rd Ech. Maint.
Bomb Disposal Sqd		9-179					1- 7			
Ord Ammo Co Avn		9-17					1-179			
Ord Supply and Maint Co Avn		9-417					1- 78			
<u>SIGNAL</u>										
Communication Unit								1-100		
AACS Det							1- 30			
Sig Det Avn		11-217					1-100			
Gp Hq (Augmented)		11-500					1- 48			
Sig Serv Co		11-500					1-250			
Sig Cons Co Hv		11-67					1-204			
							632			

TOP SECRET

UNIT		T/O	Army	ASSAULT	Navy	Marine	Army	GARRISON	Navy	Marine	Mounting	REMARKS
<u>QUARTERMASTER</u>												
Hq & Hq Det QM Bn		10-536					2- 54					2 - Med Dets of 2 Off & 8 EM each (Attchd).
QM Service Co		10-67					2- 426					Based on moving 20,000 MT per month.
QM Laundry Co SM (less 2 Plats)		10-167					$\frac{1}{2}$ - 144					
QM Bakery Plat		10-147					2- 68					
QM Graves Reg Plat		10-297					1- 23					
QM Depot Co, Supply (less 1 Plat)		10-227					$\frac{1}{2}$ - 134					
QM Salvage Coll Plat		10-187					1- 62					
QM Salvage Rep Plat		10-237					1- 88					
QM Truck Co		10-57					1- 134					
							1,133					
<u>ENGINEERS</u>												
Engr Avn Bn		5-415					3-2295					
Water Supply Plat		5-67					1- 38					
Engr Const Bn		5-75					1- 901					
Engr Dump Truck Co		5-88					3- 342					
Const Bn (Navy)		F-1										
							3576					$\frac{1}{2}$ -558
												558
<u>ADJUTANT GENERAL</u>												
Base Post Office		12-605					1- 20					
Base Censorship Net		-					1- 20					
												40
<u>MILITARY POLICE</u>												
Military Police Co, Avn		19-217					1- 104					
							104					
<u>TRANSPORTATION CORPS</u>												
Port Cos		55-117					2- 460					
Hq & Hq Det Port Bn		55-116					1- 34					
												494

This is considered adequate if the supplies to be handled do not exceed 40,000 M.T. per month above normal maintenance for garrison.

-85-

2 - Med Dets of 2 Off
& 8 EM each (Attdhd).
Based on moving 20,000
MT per month.

This is considered
adequate if the supplies
to be handled do not
exceed 40,000 M.T. per
month above normal
maintenance for garrison.

UNIT	T/O	ASSAULT			GARRISON			Mounting From	REMARKS
		Army	Navy	Marine	Army	Navy	Marine		
<u>NAVAL UNITS</u>									
GROPAC	-					1 - 367			
Boat Pool	-					1 - 350			
						717			
TOTALS		24746	500		23307	1575	230		
GRAND TOTAL ALL SERVICES		ASSAULT		GARRISON					
		25246		25112					

A16/ICE

UNITED STATES PACIFIC FLEET
AND PACIFIC OCEAN AREAS
Headquarters of the Commander in Chief

Serial 0005024

Superseded by Annex H,
dated 14 April 1945

28 February 1945

~~TOP SECRET~~

From: Commander in Chief, U. S. Pacific Fleet and Pacific Ocean Areas.
To : DISTRIBUTION LIST.
Subject: Change to Joint Staff Study, ICEBERG.
Reference: (a) Cincpoa Top Secret serial 000131 of 25 October 1944.
Enclosure: (A) Appendix H to Joint Staff Study, ICEBERG with Annex 1, Major Forces Required.

1. The following changes should be made to reference (a):
 - (a) Remove and destroy by burning pages 87-105 inclusive.
 - (b) Insert new pages 87-98 inclusive (Enclosure (A)).
2. Corrected Annexes 2 and 3 to Appendix H will be issued at an early date.

C. H. McMORRIS,
Chief of Staff.

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ComFwdAreaCentPac (4)	113-116 incl.
ComGenAAFPOA (5)	117-121 incl.
ComServPac (2)	122-123
ComSoPac (2)	124-125
CinCSWPA (2)	126-127
Com7thFleet (1)	128
ComMarGilsArea (1)	170
ComNABs, Navy No. 3256 (1)	171
CominPac (1)	172

* Includes copies for War Department

O. L. Thorne
O. L. THORNE,
Flag Secretary.

APP F
Phase III

~~TOP SECRET~~

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APPENDIX H

PHASE III

SEIZURE AND DEVELOPMENT OF ADDITIONAL POSITIONS

1. GENERAL

a. Objectives

Phase III will comprise the capture of additional islands in order to extend our air bombardment and blockade of JAPAN. Although reconnaissance is incomplete it appears that the only islands in the RYUKYUS susceptible of extensive development are MIYAKO and KIKAI. MIYAKO will be captured and developed primarily as a base for VLR aircraft. KIKAI, after capture, will be developed as an advanced base for fighters. It is expected that lack of forces, particularly Army service troops, will preclude the seizure of either of these objectives until such time as additional service units become available in the Pacific Ocean Areas.

Assuming that the necessary service troops are available, the operations comprising Phase III may conform to the following approximate time schedule, L Day being the day of initial landing on OKINAWA:

MIYAKO	A Day	L plus 90
KIKAI	F Day	L plus 120

MIYAKO is to be captured first because of the greater length of time required to develop VLR bases and in order to conform as nearly as possible to the anticipated availability dates of VLR wings.

KIKAI, being close to other enemy air bases in the AMAMI Group and a relatively short distance from JAPAN, should be captured after MIYAKO in order to allow a longer period for attrition of Japanese air forces.

Delays in the availability of service troops beyond the dates indicated above will impose corresponding delays in the seizure of the objectives.

b. Ground Forces

The V Amphibious Corps (3rd, 4th, and 5th Marine Divisions) is designated as the assault force for the capture of MIYAKO. The 3rd Marine Division and the Corps troops will be mounted in the MARIANAS area, and the 4th and 5th Marine Divisions in the HAWAIIAN area. Rehearsals will take place in the mounting areas.

One infantry division (reinforced) will be designated for the capture of KIKAI from the combat troops allocated to ICEBERG. Mounting and rehearsals will take place in the OKINAWA GUNTO.

c. Air Forces

Preliminary bombing of ~~MIYAKO~~ will be accomplished by the coordinated efforts of fast carriers, the Tactical Air Force at OKINAWA, and heavy bombers from LUZON. Direct air support of the assault will be provided by escort carriers.

Preliminary bombardment and direct air support of the assault on KIKAI will be provided by the Tactical Air Force, assisted as required by elements of the Fast Carrier Task Forces. *Fast Carrier Task Forces*

The primary function of the Fast Carrier Task Forces will be to cover the operations of Phase III by conducting continuing attacks on strategic and tactical targets on the Japanese mainland. These attacks will be coordinated with operations of the 20th Air Force and will be intensified against KYUSHU and western HONSHU during the movements of assault shipping in order to provide strategic support.

Transport carriers will transport aircraft spares, pilots, and air crews to the combat areas for replenishment of CV's, CVL's, and CVE's. In addition, they will be required to transport certain garrison aircraft units to be designated.

d. Naval Forces

Phase III will require assault shipping sufficient to mount three divisions, construction forces for early activation of airfields, and ground echelon and service units of initial air garrison. Three transport squadrons will be necessary to mount the V Amphibious Corps for the seizure of MIYAKO. The capture of KIKAI will be conducted as a shore-to-shore movement, using landing ships and landing craft exclusively.

In view of the reduced strength of the Japanese fleet and our strategic position in LUZON and OKINAWA, it is believed that three fast carrier task groups will be sufficient covering force for these operations.

Escort carriers will provide air cover for assault shipping during the movement to MIYAKO and close air support during the landing operations. Three close air support units or a total of twelve CVE's will be required. Shore based aviation should be capable of providing adequate close air support for the capture of KIKAI and the employment of escort carriers is not considered necessary for this purpose.

The total fire support force will be utilized in the MIYAKO operation. This force may be reduced for the assault on KIKAI.

2. MIYAKO - Phase III c. (There is no Phase III a. or III b.)

a. General Discussion

MIYAKO has been selected as an objective in order to acquire additional airfield sites for the following purposes:

- (1) To provide a base relatively close to JAPAN for VLR aircraft.
- (2) To provide an offensive air base to complete the neutralization of enemy positions in FORMOSA.
- (3) As a defensive southern outpost to provide greater security for our position in OKINAWA.

The capture, occupation, defense, and development of MIYAKO will be initiated as soon as the necessary service troops become available and the necessary assault shipping and combat units can be released from other

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operations.

Maximum naval covering and fire support forces available will be employed

During the assault phase the Commander Expeditionary Force will be responsible for initiating the development of MIYAKO. Upon completion of the assault phase the Commanding General, Tenth Army, will be responsible for the shore defenses, administration, and logistic support of the island.

b. Ground Forces

The estimated strength of the Japanese forces on MIYAKO is one infantry division (less one RCT) and two independent mixed brigades with supporting and service troops, totalling 20,000 - 22,000. The 1940 civil population was 60,786. A corps of three reinforced divisions is considered a suitable assault force. One division, to be provided from the assault force until a relief division is available, will be required for the defense of the island. Assault and garrison forces are listed in Annex 1 to this Appendix.

The coast of MIYAKO is nearly everywhere precipitous. The most extensive beaches border the peninsulas forming JUNK BAY. Though these beaches are backed by relatively low, rough, wooded escarpments, access inland is probably less obstructed than from any other beaches. The small islands of YERABU, SHIMOJI, and KURUMA which lie from 1-1/2 to 4-1/2 miles off JUNK BAY afford possible positions for emplacement of artillery to support the landing forces. The three existing enemy airfields are grouped on an arc about JUNK BAY, at a distance of from 1 to 2 miles therefrom. The scheme of maneuver will provide for the seizure of the three small off-lying islands on A-1 day, and the emplacement of artillery to support the main landings on A Day. Two divisions in the assault will land in JUNK BAY area in order to seize the three existing airfields. The attack will then be continued to capture the remainder of the island. A third division will be held initially in floating reserve.

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c. Air Forces

Prior to our attack MIYAKO will have been subjected to repeated air attacks by both shore-based and carrier aviation in order to neutralize its air bases as a safeguard for our position in OKINAWA. About A-15 an intensive air attack will be initiated to destroy defensive installations. The Fast Carrier Task Groups may assist in the preliminary bombardment of the target but will cover the operation by conducting strikes against strategic and tactical targets in KYUSHU and HONSHU. The Southwest Pacific Area air forces will be requested to assist in this operation by the neutralization of airfields in FORMOSA and by extensive heavy bomber attacks on MIYAKO. Direct air support of the assault and neutralization of adjacent supporting bases will be provided by escort carriers.

Four airfields will be constructed to accommodate two wings (8 groups) of very long range bombers, two fighter groups, one night fighter squadron, one Marine torpedo bomber squadron for anti-submarine patrol.

Air forces are listed in Annex 1 to this appendix.

d. Naval Forces

Three transport squadrons will be provided from new construction to mount the V Amphibious Corps for this operation. Two transport squadrons will assemble in HAWAII on A-46 to mount the 4th and 5th MarDivs; and one transport squadron in the MARIANAS on A-36 to mount the 3rd Mar Div.

All available fire support units will be required in order to effect maximum destruction of enemy defenses prior to the assault. The fire support units will be assembled in OKINAWA and will precede the assault force to the objective by at least five days. The minesweeping group should depart OKINAWA with the fire support group.

Naval forces are listed in Annex 1 to this appendix.

~~TOP SECRET~~

PART II

3. KIKAI - Phase III d.

a. General Discussion

The second objective for Phase III is KIKAI. This objective is selected in order to acquire additional airfield sites for the following purposes:

To operate fighters for escort, and for air defense to the north of OKINAWA.

To neutralize other bases in the AMAMI Group.

The seizure of this objective will be conducted as a shore-to-shore movement using amphibious craft and employing assault forces released from active operations in the OKINAWA area. Naval covering and fire support forces will be retained as required from the MIYAKO operation to support the assault on KIKAI.

b. Ground Forces

The estimated strength of the Japanese forces in the AMAMI Group is one division, one independent mixed brigade, and one independent mixed regiment with supporting and service troops, totaling 21,700 - 23,700. Of this total it is estimated that 3,500 are on KIKAI. The 1940 civil population was 18,184. In view of the enemy combat strength in the AMAMI Group, and his capability of quickly reinforcing KIKAI, it is estimated that one reinforced infantry division should constitute the assault force. One infantry division will be required for the defense of the island. Assault and garrison forces are listed in Annex 1 to this appendix.

The only potential landing beaches are at SOMACHI HAKUCHI and at SHITOOKE on the northeast coast, and at WAN and AGARE on the southwest coast. Weather permitting, the northeast coast is considered the better landing area. The scheme of maneuver will provide for landings on the northeast coast, or alternately, at WAN and AGARE in the event of unfavorable weather conditions on the northeast coast.

c. Air Forces

Air operations against KIKAI will be continuous after our establishment in OKINAWA, in order to maintain its neutralization. When the neutralization of MIYAKO and the SAKASHIMA Group is taken over by the escort carrier force, the entire offensive effort of the Tactical Air Force will be available for employment against KIKAI. KIKAI will be kept under continuous attack to destroy its defensive installations as well as to neutralize its airfields.

The proximity of KIKAI to KYUSHU makes it inadvisable to expose CVE's to attack from that major air center unless previous operations of the Fast Carrier Task Forces and the shore based aviation has resulted in an appreciable decline of Japanese offensive air capabilities. The short distance of 155 miles from OKINAWA to KIKAI will enable shore based air forces to provide convoy cover, direct air support, and combat air patrol over our forces at the objective. To augment the available shore based air strength during this period, units of the Strategic Air Force will be attached to the Tactical Air Force as required.

Subsequent to our landing and until local air defenses are established, air defense will have to be provided by combat air patrols from OKINAWA and continuous attacks on enemy air bases in KYUSHU by both shore and carrier based aviation.

KIKAI will be developed to provide a base for four fighter groups, two night fighter squadrons, and one Marine torpedo bomber squadron. Air forces are listed in Annex 1 to this appendix.

d. Naval Forces

The assault shipping for Phase III-d will consist exclusively of landing ships and landing craft which have been retained from the MIYAKO assault. It is expected that these will be assembled in OKINAWA where the assault force will be mounted.

~~XXXXXXXXXX~~

The fire support force will consist of 6 OBB, 3 CA, 3 CL, 18 DD, 9 LCI(G), and 9 LCI(M) from the force used in the MIYAKO assault.

The same covering force employed in Phase III-c will be used to support the operations against KIKAI.

Close air support will be provided by shore based aircraft from OKINAWA; therefore, no close naval air support units will be necessary.

Naval forces are listed in Annex 1 to this appendix.

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Annex 1 to Appendix H

MAJOR FORCES REQUIRED - PHASE III

1. GROUND FORCES

<u>Assault Forces</u>	<u>MIYAKO</u>	<u>KIKAI</u>
Marine Amphibious Corps of 3 MarDivs (V Amphibious Corps)	1	
Infantry Division, amphibiously trained		1
Tank Battalion (medium)		1
Engineer Combat Bn		3
Hq & Hq Co, Engr Gp		1
Amphibious Tractor Bn		3
Amphibious Tank Bn		1
Amphibious Truck Co		2
JASCO's		1
Chemical Co (motorized)		1
<u>Garrison Forces</u>		
Infantry Division	1	1
Tank Company (medium)	1	1
AAA Gun Bn	3	3
AAA A/W Bn	4	3
AAA S/L Bn (— 1 battery)	1	1
Hq & Hq Btry AAA Gp	2	2
155-mm Gun (CA) Bn	2	2
Hq & Hq Btry CA Gp	1	1
MP Battalion	1	1
Hq & Hq Btry AAA Brig	1	1

2. AIR FORCES

Garrison

From

MIYAKO

Army -	2 Wings VLR (includes 2 Wg Hq and 8 groups, with supporting troops)	U. S.
	1 Sq Photo Recon, VLR	GUAM
	1 Hq & Hq - Sv Co, Engr Avn Regt	CentPac
	2 Groups Fighters	U. S.
	1 Sq Night Fighters	U. S.
Marine -	1 Sq VMTB	CentPac
	1 Sq Air Warning	HAWAII

KIKAI

Army -	1 Hq Fighter Wing	U. S.
	4 Groups VF	1 - HAWAII
		3 - U. S.
	2 Sq VF(N)	1 - IWO JIMA
		1 - SAIPAN
Marine -	1 Sq VMTB	CentPac
	1 Sq Air Warning	HAWAII

3. NAVAL FORCES

Covering Force

MIYAKO

KIKAI

CV	8	8
CVL	4	4
BB	6	6
CA	6	6
CL	4	4
CL(AA)	4	4
DD	62	62

	<u>MIYAKO</u>	<u>KIKAI</u>
<u>Fire Support Force</u>		
OBB	10	6
CB	2	0
CA	10	3
CL	4	3
DD	27	18
LCI(G)	9	9
LCI(M)	9	9
<u>Air Support Force</u>		
CVE	12	0
DD	18	0
<u>Assault Shipping</u>		
AGC	3	1
APA	45	0
AKA	18	0
LSV	3	0
LSD	3	2
LST	100	30
LCT	20	10
LCI(L)	0	36
LSM	30	20
DD	27	9
DE	12	6
DMS	6	4
APD	6	12
AM	6	4
YMS	12	12
PC	12	6

Garrison

Base Supported	<u>MIYAKO</u>	<u>KIKAI</u>
LCT	10	10
LCM	60	20
LCVP	20	10
YMT	4	4
YTB	4	0
YNg	2	2

Fleet Supported

DD	9	9
DE	0	6
PG	6	6
SC	6	6
LST	10	4
LCI(L)	18	18
YMS	6	6
AGP	0	2
PT	0	24
AD	1	0
ARL	1	1
AN	4	4

Serial 000211

5 February 1945

From: Commander in Chief, U.S. Pacific Fleet and Pacific Ocean Areas.
To: Distribution List.
Subject: Changes to Joint Staff Study, ICEBERG.
References: (a) Cincpoa serial 000170 of 21 December 1944, ICEBERG Phase II and III.
(b) Cincpoa serial 000131 of 25 October 1944, ICEBERG Phase I.
Enclosures: (A) Annex 2 to Appendix H, Joint Staff Study ICEBERG, Logistic Measures Phase III.
(B) Annex 3 to Appendix H, Joint Staff Study ICEBERG, Troop List Phase III.

1. Reference (a) stated additional annexes to Appendix H to subject Study would follow.

2. Enclosures (A) and (B) are forwarded herewith for insertion in reference (b). Change Table of Contents to reflect addition of these annexes.

J. H. TOWERS
Deputy Cincpac & Cincpoa

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RE Keeton

R. E. KEETON
Ass't Flag Secretary

ICEBERG
ANNEX 2 TO APPENDIX H
LOGISTIC MEASURES - PHASE III

1. GENERAL

In addition to the logistic measures discussed in Appendix E to Phase I and Annex 1 to Appendix G, Phase II, the following factors applicable to Phase III are significant.

2. OPERATIONAL REQUIREMENTS

The concept of operations requires:

- a. on OKINO DAITO JIMA the early availability and installation of equipment and personnel for a LORAN station.
- b. On KUME SHIMA, MIYAKO JIMA and KIKAI JIMA rapid construction of additional airdrome facilities.

3. FACTS AFFECTING LOGISTICS

- a. Distances of the objectives from points shown are as follows, in nautical miles:

	<u>OKINO</u>	<u>KUME</u>	<u>MIYAKO</u>	<u>KIKAI</u>
OKINAWA (NAHA)	207	48	170	248
IWO JIMA	567	835	880	655
GUAM	1015	1277	1287	1215
SAIPAN	996	1265	1300	1190
ULITHI	990	1221	1200	1235
MANUS	1814	2061	1998	2075
LEYTE	900	945	845	1110
FORMOSA	546	296	209	515
KYUSHU	415	375	474	175
SHANGHAI	677	413	439	485

Supplement 1 to this Annex shows the relative position and size of the four objectives.

b. PHYSICAL SURVEY

- (1) OKINO DAITO SHIMA (see Supplement 2 to Annex 2 of Appendix H) is roughly triangular, approximately 5000 feet in its greatest

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dimension, and contains .45 square miles or 290 acres. It is a flat-topped coral formation bounded by steep rocky cliffs sloping 80 feet to the sea. Phosphate deposits are being exploited at the northwest end of the island and there is evidence of cane cultivation. No high standard roads have been built but a narrow gauge railroad links the northern phosphate diggings with the western coast. The barracks of the phosphate workers are the only settlement; population in 1938 was 2,000.

- (2) KUME SHIMA (see Supplement 3 to Annex 2 of Appendix H) is about eight miles long, contains 21 square miles, and is largely undeveloped. Its topography varies from small coastal plains to sand dunes, terraces and hills, some of which rise to 1,000 feet. Agriculture is the only significant industry. A 9-foot road circles the island, generally following the coast, and a number of minor roads cross the interior, but there are no railroads. Of several settlements GIMA, on the southwest coast, is the largest. The Island's population in 1940 was 13,400.
- (3) MIYAKO JIMA (see Supplement 4 to Annex 2 of Appendix H) is a triangular island twenty miles on its longest, the northeast, coast and 65 square miles in area. Most of it is low and flat, but there are six roughly parallel ridges, 300 to 400 feet in elevation, with steep eastern and gentle western slopes. No sizeable industry other than agriculture is reported. Roads of 9 feet or greater width follow the western shore and link it with the southern and eastern parts of the island. There is no evidence of a railroad. Of numerous scattered settlements HIRARA on the west coast is the largest, having nearly half of the Island's total 1940 population of 60,000.
- (4) KIKAI SHIMA (see Supplement 5 to Annex 2 of Appendix H) is eight miles long, three miles in its greatest width, and has an area of 22 square miles. A number of plateaus slope gently to the north and east to an elevation of nearly 700 feet. Sand dunes occur in the western end. There is no industry of importance. A minor perimeter

road circles the island and a main road connects the two principal towns, SOMACHI on the east and WAN on the west. The Island has no railroad. Villages are scattered throughout the area and the population in 1940 was 18,000.

c. WATER SUPPLY

- (1) OKINO DAITO JIMA. The best information available indicates the present water supply is dependent on catchments and shallow wells. Distillation units will therefore be needed in the early phases of occupation and wells driven to sea level in the center of the island will be the best source in the garrison phase.
- (2) KUME SHIMA, like OKINO DAITO JIMA, apparently depends on catchments and wells for water supply. Distillation units and deeper wells will be required as at OKINO.
- (3) MIYAKO JIMA has little or no surface water, but it is reported that deep wells will produce a large quantity of potable water. The enemy installations to supply his airfield development may be salvageable, but distilling units must be planned.
- (4) KIKAI SHIMA's existing water installations are inadequate for our needs, practically all surface water being lost in permeable rock. Inland wells driven approximately to sea level and/or distillers will be required.

d. HARBORS

- (1) OKINO DAITO SHIMA is surrounded by a narrow reef and has no protected inlet or anchorage. Small ships now approach the southwest side of the Island, making use of mooring buoys near a crane-equipped pier.
- (2) KUME SHIMA has a useable harbor in SHIMAJIRI WAN, formed by coral reefs enclosing a large lagoon southeast of the Island. The anchorage has 15-20 fathoms and is well sheltered from all directions except southeast. Any size ship could enter, there being anchorage area for 4 cruisers and several destroyers, but local knowledge of the entrance shoals and of numerous dangers within the bay would be essential for further utilization. A channel breaks the reef at GIMA to afford

access to an anchorage suitable for small craft. Tidal currents crossing the entrance, however, reach strengths of $3\frac{1}{2}$ knots.

(3) MIYAKO JIMA is surrounded by a coral reef. Northwest of the island this formation protects MIYAKO HAKUCHI, an anchorage sufficient for several capital ships plus attendant cruisers and destroyers, sheltered from all but northwest winds. Numerous detached patches of coral, some invisible, are present, but dangers from currents are negligible. To the south of MIYAKO HAKUCHI, near the town of HIRARA, are two smaller, deep water anchorages more sheltered but with narrow entrances. The port of HIRARA is approached by waters too shallow, however, for any vessels other than small craft. JUNK BAY, south of HIRARA, is too shallow for use as an anchorage but will accommodate small landing craft. A secondary anchorage is possible on the east coast, north of YASHIKUBARA. Although small and exposed to northwest winds protection is otherwise adequate and water depth is sufficient for any vessel. A small bay east of KURUMA JIMA has possibilities of ten 600 yard berths in 10 to 20 fathoms of water. This site is only one mile from an existing airfield.

(4) KIKAI JIMA's best harbor, SOMACHI HAKUCHI, a double inlet at the town of SOMACHI, is small and open to winds between east and southeast, but appears to be suitable for LSTs and like vessels. WAN MINATO, on the southwest coast, almost dries and is available only to very light craft. The waterfront at ONOTSU appears in photographs to be of rough volcanic rock, but a small pier there may be salvageable. A number of minor indentations afford passage through the reef for small boats only.

e. BEACH CAPACITIES

(1) OKINO DAITO JIMA has no beaches, the only practicable landing point being the phosphate pier and the adjoining seawall. This pier and the small crane mounted thereon may survive the assault to be of use in increasing the discharge capacity, but an estimate of 500 M/T per day, adequate for expected needs, is all that is warranted by intelli-

gence information now available.

- (2) KUME SHIMA has no known cargo handling facilities and all initial discharge will have to be made over the beaches. GIMA KO is satisfactory for small craft and there is nearly 6,000 feet of shallow water approaches or sandy beaches in this area. Because of limitations of exit from these beaches, tide conditions and relative exposure, however, estimates of the capacity are below those experienced in previous operations and vary widely. 500 M/T per day is a conservative figure subject to revision in view of later photographic coverage of the area.

SHIMAJIRI WAN offers greater capacity, at least 1700 M/T per day.

Possible landing sites along the southeast coast of the island total 6,600 feet of shallow water approach or sandy beach. Because of the same limitations mentioned above for GIMA KO, however, the capacity estimate is conservative and subject to revision by later intelligence data. 2,200 M/T per day is insufficient for all anticipated needs, but by landing the prescribed build-up supplies on OKINAWA and by transshipment KUME's beach capacity becomes more nearly adequate.

- (3) MIYAKO JIMA also is without any known cargo handling facilities, but in view of the enemy's airfield development it is probable that some improvements have been made. Considerable anchorage area is available favorably located off the best beaches, those on the western coast. These may be used during any of the usual weather but use of more exposed beaches on the southern and eastern coasts simultaneously will be rarely if ever practicable. Capacities are conservatively estimated as follows:

East Coast	1700 M/T per day, or
South Coast	1700 M/T per day.
West Coast	<u>5100</u> M/T per day.
Total	6800 M/T per day.

This total is sufficient to handle tonnages planned for discharge.

- (4) KIKAI JIMA's beach capacity appears to be far below anticipated requirements. Further intelligence may permit upward revision, but

current estimates are 500 M/T per day at SOMACHI HAKUCHI and an additional 500 for all of the island's other practicable landings. Limitations arising from off-shore conditions, lack of inlets and steep shores indicate little possibility of developing much greater capacity. Unless later photo coverage shows more favorable beaches the seizure and development of KIKAI SHIMA as proposed will be logistically feasible only by extensive use of exposed anchorages, small boats, cargo planes or gliders, parachute drops, or other relatively inefficient support methods of this nature.

4. TROOP AND TONNAGE REQUIREMENTS

- a. In setting up the troop lift and tonnage requirements, the following assumptions are made:

(1) ESTIMATED TONNAGE LIFT PER MAN

	<u>Total Lift</u>	<u>Orig. Equip. Initial Maint. & Const. Material</u>	
		<u>Initial Lift</u>	<u>Later Echelon</u>
Tactical Troops - withdrawn	3 MT	3 MT	0
Tactical Troops - Remaining as part of garrison	5 MT	3 MT	2 MT
Garrison Troops - loaded with assault Forces	10 MT	3 MT	7 MT
Other Garrison Troops	10 MT	5 (Minimum)	5 MT

(2) LOADING CAPACITIES WITHOUT STOWAGE

AP's - 1500 Personnel and 200 MT

AK's - 6500 MT for vessels scheduled to arrive during combat period (assumed 1st month), and 9000 MT for remainder.

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b. OKINO DAITO JIMA

ESTIMATED PERSONNEL LIFT		1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	TOTAL
Tactical Troops		7319							7319
Garrison Troops		2000	925						2925
Replacements (not incl. Population)			640						640
TOTAL TROOPS		9319	1565						10662
In Assault Shipping		7819							7819
In Garrison Shipping		1500	1565						3065
AP's Required		1	1						2
		(@ 1500 per AP)							
POPULATION ESTIMATE									
Balance forward			9319						10244
Total Troops from "A"		9319	925						
SUB-TOTAL		9319	10244						
Withdrawals			6623						6623
Estimated Population		9319	3621	*	3621		3621	3621	
ESTIMATED DISCH/RGE		(Based on very meager information)							
Capabilities in M/T's		15000	15000		15000		15000	15000	15000
ESTIMATE OF TOTAL M/T of Original Equipment & Initial Maintenance									
Tactical Troops	@ 3 M/T per Man			6623	X	3	=		19869
	@ 5 M/T per Man			696	X	5	=		3480
Garrison Troops	@ 10 M/T per Man			2925	X	10	=		29250
									52599

ESTIMATE OF TONNAGE LIFT (M/T)		1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	TOTAL
Maintenance @ .8 M/T per Man		7455	2896	2896	2582	2582	2582	2582	5794
Build up Supply Level			2000	2000	1794				
Military Gov't (NONE)									
Tactical Troops in Assault Shipping		23457							
M/T for Garrison Lift		7500	10110	10110	1422				(52599
		38412	15000	15000	5798	2582	2582	2582	
Lifted in Assault Shipping	23457								23457
Lifted in Garrison AP	2000		2000		5798	2582	2582	2582	4000
Lifted in AK	12955		13000	15000	1	1	0		
AK's Required	2	2	2	2	1	1			
AK's Involved (120 Day Turn Around)	2	4	6	7	6	4	2		

* Used as basis for Supply Level

c. NUME SHIMA

ESTIMATED PERSONNEL LIFT

	<u>1st Month</u>	<u>2nd Month</u>	<u>3rd Month</u>	<u>4th Month</u>	<u>5th Month</u>	<u>6th Month</u>	<u>7th Month</u>	<u>TOTAL</u>
Tactical Troops	25736	19740						25736
Garrison Troops	10000	1700	3000					29740
Replacements (not incl. in Population)			3000					4700
TOTAL TROOPS	35736	21440	3000					60176
In Assault Shipping	29736							29736
In Garrison Shipping	6000	21440	3000					30440
AF's Required	4	14	2					20
						(@ 1500 per AF)		

POPULATION ESTIMATE

Balance forward	35736	35736						
Total Troops from "A"	19740	19740						
SUB-TOTAL	35736	55476						55476
						(Less Replacements)		

Withdrawals		22644						22644
Estimated Population	35736	32832	* 32832	32832	32832	32832	32832	
ESTIMATED DISCHARGE CAPABILITIES IN M/T	66000	66000	66000	66000	66000	66000	66000	

ESTIMATE OF TOTAL M/T OF ORIGINAL EQUIPMENT & INITIAL MAINTENANCE

(Based on very meager information)

Tactical Troops	(@ 3 MT Per Man	22644	X	3	=	67932
	(@ 5 MT Per Man	3092	X	5	=	15460
Garrison Troops	@ 10 MT Per Man	29740	X	10	=	297400
						380792

<u>ESTIMATE OF TONNAGE LIFT (M/T)</u>								
	<u>1st Month</u>	<u>2nd Month</u>	<u>3rd Month</u>	<u>4th Month</u>	<u>5th Month</u>	<u>6th Month</u>	<u>7th Month</u>	<u>TOTAL</u>
Maintenance @ .8 MT Per Man	28589	26265	26265	26265	26265	26265	26265	43902
Build Up Supply Level	300	17510	17510	17510	300			
Military Gov't.		300	300	300	300			
Tactical Troop Forces in Assault	89208							(380972
Shipping	60000	57941	57941	57941	57941			
MT for Garrison Lift	88889	102016	102016	102016	84506	26265	26265	
Total For Ships**								
Total For Discharge Capacity	178097	84506	84506	84506	84506	26265	26265	89208
Lifted in Assault Shipping	89208							40000
Lifted in Garrison AF	8000	28000	4000			26265		
Lifted in AK	80889	74016	98016	102016	84506	3	26265	
AK Required	12	8	11	11	9		3	
AK's Involved (120 day Turn Around)	12	20	31	42	39	34	26	

* Used as basis for supply level.
 ** Used in computing AK's required; Build-up Supply tonnages are planned to be landed on OKINAWA since KUNIE's beach capacity is apparently insufficient.

d. MIYAKO JIMA

ESTIMATED PERSONNEL LIFE

Tactical Troops
Garrison Troops
Replacements (not incl. Population)
TOTAL TROOPS

In Assault Shipping
In Garrison Shipping
AP's Required

POPULATION ESTIMATE

Balance Forward
Total Troops from "A"
SUB-TOTAL

Withdrawals
Estimated Population

ESTIMATED DISCHARGE CAPABILITIES
IN M/T'S

ESTIMATE OF TOTAL M/T OF ORIGINAL
EQUIPMENT & INITIAL MAINTENANCE

Tactical Troops
Garrison Troops

	<u>1st Month</u>	<u>2nd Month</u>	<u>3rd Month</u>	<u>4th Month</u>	<u>5th Month</u>	<u>6th Month</u>	<u>7th Month</u>	<u>TOTAL</u>
86646								86646
10000		29733	9366					49099
		3000	3000	3600				9600
96646	32733	12366	3600					145345
91646								91646
5000	32733	12366	3600					53699
3	22	8	2					35
96646	29733	9366						135745
96646	126379	78914						56831
56831	69548	78914*	78914	78914	78914	78914	78914	56831
204000	204000	204000	204000	204000	204000	204000	204000 (Based on very meager information)	
@ 3 M/T per man	56831	X 3	=	170493				
@ 5 M/T per man	29815	X 5	=	149075				
@ 10 M/T per man	49099	X 10	=	490990				
				810558				

<u>ESTIMATE OF TONNAGE LIFT (M/T)</u>									
	<u>1st Month</u>	<u>2nd Month</u>	<u>3rd Month</u>	<u>4th Month</u>	<u>5th Month</u>	<u>6th Month</u>	<u>7th Month</u>	<u>TOTAL</u>	
Maintenance @ .8 M/T per man	77317	55638	63131	63131	63131	63131	63131	103236	
Build up Supply Level		30000	30000	30000	13236	1500			
Military Gov't.		1500	1500	1500	1500	1500			
Tactical Troops in Assault Shipping	274938								(
M/T for Garrison Lift	50000	116862	109369	109369	126133	23887		(810558	
TOTAL	402255	204000	204000	204000	204000	88518	51618		
Lifted in Assault Shipping	274938							274938	
Lifted in Garrison APs	6000	44000	16000	4000		(@ 2000 MT)			
Lifted in AK	121317	160000	188000	200000	204000	88518	63131		
AK's Required	19	18	21	23	23	10	7		
AK's Involved (120 Day Turn Around)	19	37	58	81	85	77	63		

* Used as basis for Supply Level.

e. KIKAI JIMA

ESTIMATED PERSONNEL LIFE

	<u>1st Month</u>	<u>2nd Month</u>	<u>3rd Month</u>	<u>4th Month</u>	<u>5th Month</u>	<u>6th Month</u>	<u>7th Month</u>	<u>TOTAL</u>
Tactical Troops	28374							28374
Garrison Troops	10000	20000	12325					42325
Replacements (not add'l. Population)		2500	1500			1500		5500
TOTAL TROOPS	38374	22500	13825			1500		76199
In Assault Shipping and by Parachute	33374							33374
In Garrison Shipping	5000	22500	13825					42825
AP's Required	3	15	9				1 (@ 1500 per AP)	28

POPULATION ESTIMATE

Balance Forward	38374	38374	33134					
Total Troops to be landed	38374	20000	12325					70699
SUB-TOTAL	38374	58374	45459					

(Less Replacements)

Withdrawals		25240						25240
Estimated Population	38374	33134	45459*	45459	45459	45459	45459	

ESTIMATED DISCHARGE CAPABILITIES
IN M/T.

30000 (Based on very meager information)

ESTIMATE OF TOTAL M/T OF ORIGINAL
EQUIPMENT & INITIAL MAINTENANCE

Tactical Troops	@ 3 M/T per man	28374	X 3	-	85122
	@ 5 M/T per man	3134	X 5	-	15670
Garrison Troops	@ 10 M/T per man	42325	X 10	-	423250
					524042

ESTIMATE OF TONNAGE LIFT (M/T)

	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	TOTAL
Maintenance @ .8 M/T per man	30700	26507	36367	36367	36367	36367	36367	
Build up Supply Level **		12549	12000	12000	12000			
Military Gov't.		450	450	450	450			
Tactical Troops in Assault Shipping	100122							
M/T for Garrison Lift	20000	80784	80784	80784	80784	80784		(524042
(For Ships **		120290	129601	129601	129601	117151	36367	
TOTAL (Less Build-up)		(12549)	(12000)	(12000)	(12000)			
(For Unloading Capacity	150822	107741	117601	117601	117601	117151	36367	
Lifted in Assault Shipping	100122							
Lifted in Garrison AP	6000	30000	18000			2000		
Lifted in AK	60851	90290	111601	129601	129601	115154	36367	
AK's Required	9	10	12	15	14	13	4	
AK's Involved (120 Day Turn Around)	9	19	31	46	51	54	46	

* Used as basis for supply level.

** Used in computing AK's required; Build-up Supply tonnages are planned to be landed on OKINAWA since KIKAI JIMA's beach capacity is inadequate.

5. CONTEMPLATED DEVELOPMENT

a. AIRFIELD DEVELOPMENT

- (1) OKINO DAITO JIMA is too small for even a fighter strip in the prevailing wind direction and none is planned.
- (2) KUME SHIMA has only one area suitable for dispersed airfields, the western tip of the island. Information is fragmentary but indicates that only two parallel fighter strips about 4500 feet long and 1000 feet apart can be accommodated, as shown on Supplement 3 to this Annex. Coral is available for surfacing. Solid rock and the topography appear to render the amount of grading to construct bomber fields prohibitive. If subsequent photo coverage confirms the unavailability of a VLR airfield site selection of another objective for this purpose is to be expected. For planning purposes logistic support of the alternate objective may be assumed to be the equivalent of that for KUME.
- (3) MIYAKO JIMA has been described as "ideal" for airfields. Its flat surface appears to offer 6 or 7 possible sites for 7,000 foot fields. On 10 October 1944 three fields existed with a total of six runways, four having lengths of 4,000 to 5,500 feet. Both approach conditions and grading possibilities are favorable to further construction. As shown in Supplement 4 to this Annex development is contemplated as follows:

Four 7,000 foot strips, one per VLR Group, arranged in pairs.

Two fighter fields totalling three 5,000 foot strips, one field per Fighter Group plus one VF(N) or VMTB squadron.

Further intelligence may later dictate another arrangement but the above is considered a conservative estimate of the island's potentialities.
- (4) KIKAI JIMA is known to have one existing airfield, approximately 4500 feet long, situated near WAN. As shown on Supplement 5 to Annex 2 of Appendix H the island's coastal plains offer the best additional sites and four fighter fields are contemplated. The terrain is

satisfactory and coral is readily obtainable for surfacing. Cross-drainage from inland slopes, particularly on the eastern coast sites, is expected to be the greatest problem. Several small villages will have to be removed complicating somewhat the care of civilians.

b. NAVAL FACILITIES

- (1) At OKINO DAITO JIMA no naval facilities other than a GROPAC and a LORAN station are planned. Detailed composition of the GROPAC, to have 192 personnel, is given in Supplement 1 to Annex 3 of Appendix H; its principal components are Administration, Boat Pool, Surface Radar and Boat Repair units.
- (2) KUME SHIMA's anchorage, SHIMAJIRI WAN, although relatively small warrants development and support. The components of this development, principally a standard GROPAC, a Boat Pool, a Harbor Entrance Control Post and allied harbor protection units are listed in Supplement 2 to Annex ³ of Appendix H. The aggregate personnel complement of the Naval Base will be 704.
- (3) MIYAKO JIMA also has an anchorage worthy of development, and installation of an 848-man naval base consisting of forty-two components plus a 600-man boat pool is contemplated. The forty-two components, largest of which are the Port Director, Supply and Dispensary units, are listed in Supplement 3 to Annex 3 of Appendix H.
- (4) KIKAI SHIMA will be the site of a GROPAC, to serve the small harbor at SOMACHI, and two PT Operating Bases. Twenty-six components, listed in Supplement 4 to Annex 3 of Appendix H, make up the 459-man GROPAC. Use of a 300-man Boat Pool is also contemplated.

c. HARBOR DEVELOPMENT AND WATERFRONT FACILITIES

- (1) OKINO DAITO JIMA. Reconstruction of the phosphate loading pier and moorings will probably require augmentation by some device such as shore ramps and the use of LSTs to supply this island adequately. Lack of protected waters renders the use of pontoon piers doubtful.

No nets or underwater detection devices are considered necessary if the contemplated surface search radar can be augmented by anti-submarine craft. A GROPAC will provide essential waterfront services.

- (2) KUME SHIMA. Although the initial assault on this Island will utilize GIMA KO, the limited potentialities of this harbor warrant only minor development as compared to SHIMAJIRI WAN to the southeast. A very narrow embayment in the coral of GIMA KO affords deep water as far as HANA SAKI, but the construction of wharves would be required to accommodate efficiently any but light craft. For use of GIMA KO as only a light craft anchorage no fixed underwater detection gear is contemplated. A slip mooring for a patrol vessel, however, will be required off the harbor entrance so that the patrol craft may use its detection gear free of engine noises while retaining a good position for interception.

SHIMAJIRI WAN is better suited for large ship discharge and is considered adequate for the island's needs. Should any major installation be added to the two fighter strips, however, clearing of the numerous coral heads in the bay will be necessary. For harbor protection the following is contemplated:

Torpedo net from TOKUSHIMA BISE to HANAREGAA BISE, with tug operated gate.

Sonobuoys on an arc 2 miles distant from the entrance, later supplemented by a herald southeast of HANAREGAA BISE.

A Harbor Entrance Control Post with underwater detection station and surface search radar on SHIMAJIRI SAKI.

These positions are shown on Supplement 3 to Annex 2 of Appendix H.

Waterfront facilities will be provided by a GROPAC. Pontoon piers will be installed for discharge of small craft but wharfage for AK type vessels does not appear feasible.

(3) MIYAKO JIMA. Development of MIYAKO HAKUCHI into an anchorage affording the equivalent of 32 berths of 600 yards each is contemplated. Off-shore installations, shown in Supplement 4 to Annex 2 of Appendix H, will include:

Torpedo nets and underwater detection devices, including sonobuoys and eventually hydrophones.

A Harbor Entrance Control Post located on YERABU JIMA or IKEMA JIMA.

A surface search radar at the above post.

Picket boats sufficient to maintain constant patrol in the narrow passages and shallow water south of the anchorage.

Larger craft (83 ft. type) to patrol the northern anchorage approaches.

Mooring buoys in the small anchorage area between HIRARA and SHIMO ZAKI.

Channel buoys and channel entrance range.

Shore facilities to serve the harbor will be included in a CUB at HIRARA, and the installation of pontoon piers there is contemplated.

Additional possibilities, awaiting confirmation by later intelligence data, include a tanker mooring in the bay east of HIRARA and a secondary anchorage for about ten ships east of KURUMA JIMA. Should weather conditions prove favorable these bays, although relatively exposed, will be enclosed by nets and utilized.

(4) KIKAI SHIMA. The harbor of SOMACHI HAKUCHI, roughly only 800 yards by 500 yards in area, is the only anchorage potentially useful.

Three sets of bow and stern moorings for small vessels and six pontoon wharves will be the maximum practicable development. Use of the large roadstead anchorage outside the harbor will be necessary, requiring installation of torpedo nets arranged in baffles as shown

on Supplement 5 to Annex 2 of Appendix H. Gates for emergency exit must be incorporated in the net baffles. Considerable depths close off-shore render fixed underwater detection devices inadvisable; constant patrol by anti-submarine craft will be necessary. Harbor service facilities ashore will be provided by a GROFAC at SOMACHI.

CONTEMPLATED DEVELOPMENT - ICEBERG PHASE III

d. REQUIREMENTS

PROJECT	TOTAL BATT MOS OPER'L. COMPLETION	TOTAL BATT MOS FINAL COMPLETION	CONST. TRPS. REQUIRED	CONST. DAYS TO PLACE IN OPER. STATUS	CONST. DAYS FOR FINAL COMPLETION	CONST. EQUIP. M/T	CONST. MATL. M/T
<u>OKINO DAITO JIMA</u>							
LORAN STA.			USCG Pers. 36			1000	200
GROPAC			$\frac{3}{4}$ NCB (P1) 279	As landed	180	2240	10964
TOTALS			315			3240	11164
<u>KUME SHIMA</u>							
(For Tentative Planning Purposes only pending selection of new sites due to apparent inadequacy of KUME SHIMA).							
1 AIRFIELD (New)	5.25	16.5	2 Eng. Avn. Bns 1610	75**	230	21300	17300*
2 VLR Groups (90 Planes)							
2 Strips 7000' x 150'							
1 AIRFIELD (New)	1.7	7.4	1 Eng. Avn. Bn 805	50**	225	7700	10570*
2 VF Groups 1-VF(N)SQD (234 Planes)							
2 Strips 5000' x 150'							
GROPAC			1/2 NCB (P1) 558	As landed	180	4480	10964*
ROADS			Eng. Const. Bn 944		180	7200	
Spec. Const. Equip. Crushers, Distributors, etc.							
TOTALS			3917			40680	556 39390

* Includes tonnage for replacement huts for hospital wards and flight personnel.
 ** One strip / 20% taxiways and hardstands and minimum facilities.

PROJECT	TOTAL BATT MOS OPER'L. COMPLETION	TOTAL BATT MOS FINAL COMPLETION	CONST. TRPS. REQUIRED	CONST. DAYS TO PLACE IN OPER. STATUS	CONST. DAYS FOR FINAL COMPLETION	CONST. EQUIP. M/T	CONST. MATL. M/T
<u>MIYAKO JIMA</u>							

<u>AIRFIELD NO. 1 (Existing)</u>							
2 VLR Groups (90 Planes)	4.6	16.5	3 Eng. Avn. Bns 2415	50**	162	23100	17300*

1 New Strip
1 Strip Rebuilt & Ext'd.

<u>AIRFIELD NO. 2 (Existing) (Activated 5 days after seizure)</u>							
1 VF Group-111 Planes							
1 VF(N) Sqd. 12 Planes				45**	144	7700	7090*
2 Strips to be extended to 5000'x150'	1.5	4.8	1 Eng. Avn. Bn 805				

<u>AIRFIELD NO. 3 (New)</u>							
1 VF Group-111 Planes	1.7	4.8	1 Eng. Avn. Bn 805	50	142	7700	7090*
1 VMTB Sqd. - 18 Planes							
1 Strip 5000'x150'							

<u>AIRFIELD NO. 4 (Existing)</u>							
2 VLR Groups - 90 Planes	4.6	16.5	3 Eng. Avn. Bns 2415	50**	162	23100	17300*
2 Strips 7000'x200'							
1 New Strip							
1 Strip Rebuilt & Ext'd							

CUB			2 NCB (P1) 2230	As landed	180	17920	28800
Roads			Eng. Const. Bn 944		180	7200	

Spec. Const. Equip
Asphalt, Plant, Crushers,
Pavers, Distributors

TOTALS						86720	80580
							3000

* Includes tonnage for replacement huts for hospital wards and flight personnel.
** One strip / 20% taxiways and hardstands and minimum facilities.

PROJECT	TOTAL BATT MOS OPER'L. COMPLETION	TOTAL BATT MOS FINAL COMPLETION	CONST. TRPS. REQUIRED	CONST. DAYS TO PLACE IN OPER. STATUS	CONST. DAYS FOR FINAL COMPLETION	CONST. EQUIP. M/T	CONST. M/TL. M/T
<u>KIKAI JIMA</u>							
<u>AIRFIELD NO. 1 (Under Const.)</u>	1.2	3.7	1 Eng. Avn. Bn 805	35**	110	7700	5800*
1-VF Group-111 Planes							
1-VF(N) Sqd-12 Planes							
Strip 4500'x150'							
<u>AIRFIELD NO. 2 (New)</u>	1.6	3.8	1 Eng. Avn. Bn 805	50**	115	7700	5300*
1 VF Group-111 Planes							
Strip 5500'x150'							
<u>AIRFIELD NO. 3 (New)</u>	1.6	4.0	1 Eng. Avn. Bn. 805	50**	120	7700	5600*
1-VF Group-111 Planes							
1-VF(N) Sqd.-12 Planes							
Strip 5500'							
<u>AIRFIELD NO. 4 (New)</u>	1.6	4.0	1 Eng. Avn. Bn 805	50**	120	7700	5600*
1-VF Group-111 Planes							
1-VMTB Sqd-18 Planes							
Strip 5500'x150'							
GROPAC			$\frac{1}{2}$ MCB (Pl) 558	As landed.	180		10964*
ROADS			Eng. Const. Bn. 994		180	7200	
2 PT Bases	2.0	4.0	INCB (Pl) 1115	30	60	8960	10400
Special Const. Equip. Distributors (Asphalt)							
TOTALS			<u>5837</u>			<u>46960</u>	<u>100</u> <u>43764</u>
GRAND TOTAL (All Four (4) Locations)			19683			177600	174898

* Includes tonnage for replacement huts for hospital wards and flight personnel.
 ** One strip / 20% taxiways and hardstands and minimum facilities.

6. MEDICAL FACILITIES AND EVACUATION POLICY

a. ESTIMATE OF CASUALTIES

<u>Type of Casualty</u>	<u>OKINO</u>	<u>KUME</u>	<u>MIYAKO</u>	<u>KIKAI</u>
Dead and Missing	160	800	2400	1000
Local Hospitalization	150	800	2400	500
Requiring Evacuation	<u>490</u>	<u>2400</u>	<u>7200</u>	<u>3500</u>
Totals	800	4000	12000	5000

b. EVACUATION

(1) Casualties from OKINO will be evacuated directly to the MARIANAS, by surface only. An AH or APH will be provided for emergencies and evacuation. From all other objectives evacuation by surface is contemplated and by air when airfields are available, to the MARIANAS and OKINAWA. MIYAKO casualties will also be sent to the PHILIPPINES upon advance arrangement by Cincpoa with CinCSWPA. Bed credits required:

	<u>OKINAWA</u>	<u>MARIANAS</u>	<u>PHILIPPINES</u>
OKINO	-	490	-
KUME	1000*	1400	-
MIYAKO	500*	2000	4500
KIKAI	<u>1000</u>	<u>2500</u>	<u>-</u>
Totals	2500	6390	4500

* (Staging, enroute MARIANAS or PHILIPPINES).

(2) Surface ships required:

<u>Objective</u>	<u>No. and Type Ship</u>	<u>Total Capacity</u>
OKINO	1 AH or APH	500
KUME	2 AH 24 LST or 10 APA	1000 1400
MIYAKO	4 AH* 3 APH 8 APA	4000 2100 1100
KIKAI	2 AH 3 APH 3 APA or 7 LST	1000 2100 400

* 2 Trips.

c. HOSPITALIZATION

In the assault phase at all objectives medical units of the assault force will provide hospitalization. Garrison hospitalization requirements will be as follows:

OKINO	150 beds.
KUME	1025 beds.
MIYAKO	3050 beds.
KIKAI*	1850 beds.

* With a 15-day evacuation policy.

d. CARE OF CIVILIANS

<u>Objective</u>	<u>Estimated Casualties</u>	<u>Medical Service by</u>
OKINO	150	Med. Units of Assault Force.
KUME	1300	Mil. Govt. Units - 100 beds.
MIYAKO	6000	Mil. Govt. Units - 600 beds.
KIKAI	1800	Mil. Govt. Units - 150 beds.

7. LOGISTIC SUPPORT FOR THE FLEET

In addition to the harbors to be utilized in Phases I and II, OKINAWA (NAKAGUSUKU WAN) will be available during Phase III for the services of fleet oilers, ammunition ships, supply ships and barges, and limited ship repair facilities. Ship repair facilities and emergency logistic replenishment will be available at MANUS and to a lesser extent at LEYTE, subject to arrangement by Cincpoa with CinCSWPA. Fleet fuel consumption is estimated as follows:

L / 30 to L / 60	4,200,000 bbls.
L / 60 to L / 90	4,200,000 bbls.
L / 90 to L - 120	5,100,000 bbls.

In the event the British Pacific Fleet takes part in this operation fuel requirements will be increased by approximately 700,000 barrels for each of the above periods. All other aspects of logistic support for the Fleet for Phases I and II apply equally to Phase III.

8. LOGISTIC SUPPORT OF LAND BASED FORCES

a. RESPONSIBILITY FOR SUPPLY

Forces in Phase III, mounted from areas other than OKINAWA, will be furnished initial supplies by Commanders responsible for furnishing such supplies to forces of Phase I. Forces mounting from OKINAWA will be furnished initial supplies by ComGententh Army within total quantities of supplies made available by Cincpoa.

Commanders responsible for providing supplies subsequent to initial mounting for Phase I will be similarly responsible for resupply of Phase III forces.

b. SUPPLIES TO ACCOMPANY TROOPS

For the forces in Phase III mounting from points other than OKINAWA the same levels of initial supplies as prescribed for Phase I (page 46, paragraph 7 b., Appendix E) will be required. Supplies to accompany forces mounting from OKINAWA will be determined and provided by ComGententh Army from total quantities of supplies made available to him by Cincpoa for all phases of the ICEBERG operation.

c. SUPPLY LEVELS TO BE ESTABLISHED AND MAINTAINED AT THE OBJECTIVE

Supply levels for Phase III will be as prescribed for Phase I. ComGententh Army is authorized to distribute stocks among various islands to maintain the prescribed total and stock level.

d. RESERVE SUPPLIES

Since Phase III forces are largely redeployed from Phase I, the reserve levels and supplies (except Class III) established for Phase I will continue through Phase III.

Class III Reserves

(1) All products (less Avgas), drummed:

One ship will be loaded on West Coast with 30 days of Class III (less Avgas) supplies in drums as follows: (Approximately 30 days supply for 50,000 troops)(12 days approximately for all garrisons at all 4 targets).

Mogas	17,000 Drums	Greases in Pounds	
White Gas	4,000 "	2-107	17,500
Diesel	8,500 "	2-108	6,250

Kerosene	350 Drums	2-109	2,000
Avlube 1120	300 "	2-110	1,250
SAE 10 lube oil	50 "	Gear Lube	
SAE 30 lube oil	850 "	SAE 90	47,650
SAE 50 lube oil	150 "		

This ship to arrive at OKINAWA by L / 70 and to be held in reserve for Phase III on call of Commanding General 10th Army. If these supplies are not used sooner, they will be discharged at OKINAWA by L / 120 and constitute drummed reserves.

(2) Avgas and related Avlube, drummed:

Two shiploads (60,000 drums Avgas, 2000 Avlube) as provided for in Annex D to Cincpac-Cincpoa Operation Plan 14-44 (para. 5(d) 1, page 11), if not used in Phases I and II, or portions thereof not used, will be available to ComGen10thArmy on call.

(3) All products, bulk:

No AOGs in addition to those provided for Phases I and II are considered necessary for Phase III. However, ComServPac will have four additional YOGIs (all non self-propelled) available to ComGen10thArmy upon prior arrangement with ComServPac.

To reduce handling of drums to a minimum, AOGs are to be at targets, and installation of flexible pipelines, submarine lines and temporary bulk storage ashore near landing beaches, is to be commenced in initial assault, or as soon after assault as possible.

e. METHOD OF SUPPLY

(1) OKINC.

Essential maintenance supplies for 30 days of all classes (except Class III which will be 15 days and Class V) for all elements of the expeditionary troops employed in Phase IIIa will be provided by ComGen10thArmy on call of Commander Expeditionary Troops Phase IIIa and will constitute the first resupply shipment. These supplies will be loaded on the WEST COAST, will sail at such time as to arrive ENIWETOK by T-15 (L / 45) and will be loaded for optional discharge in one ship also carrying Phase I and/or Phase II maintenance supplies, to sail with one of the regular OKINAWA maintenance shipments. It will be

held at ENIWETOK for forward movement on call of ComGen10thArmy. Subsequently, ComGen10thArmy will be responsible for the resupply of the landing and garrison forces, utilizing stocks and vessels available locally to him. The regular OKINAWA maintenance shipments will include supplies necessary for the support of the OKINAWA Forces. No bulk storage of Mogas and Diesel is considered necessary for this island; all units stationed there will be supplied with Class III products (less Aviation) in drums, trans-shipped from OKINAWA, with special consideration to operative requirements of LORAN equipment.

(2) KURE JIMA.

Essential maintenance supplies for 30 days of all classes (except Class III which will be 15 days, and Class V) for all elements of the landing and garrison forces scheduled to be at the objective by K / 35 (L / 105) will be loaded on the WEST COAST and will sail at such times so as to arrive at ENIWETOK at K - 15 (L / 55). This shipment will sail from the WEST COAST with one of the regular OKINAWA maintenance shipments, but will be loaded in separate ships. It will be held at ENIWETOK for forward movement on call of ComGen10thArmy and will constitute the first re-supply shipment for Phase IIIB.

The second and succeeding re-supply shipments will be scheduled to arrive at ENIWETOK at 10-day intervals commencing K - 5 (L / 65) and accompanying regular OKINAWA maintenance shipments. These shipments will be held at ENIWETOK for forward movement on call of ComGen10thArmy. Supplies for the second and third re-supply shipments, loaded in separate ships, will contain 15 days' supply of all classes (except Class III Avgas and Class V) for all elements of the landing and garrison forces to be supported. Supplies for the fourth and succeeding re-supply shipments, loaded in separate ships, will contain 15 days' supply of all classes (except drummed Avgas, Mogas and Diesel; and Class V) for all elements of the landing and garrison forces to be supported. These shipments will continue until the prescribed area levels are reached; thereafter only sufficient supplies will be included to maintain these area levels.

~~TOP SECRET~~

Assuming the VLR bomber field is operational by K / 75 and a fighter field by K / 50 Avgas requirements are estimated as follows:

K / 45 - K / 60	629,000 gal. in bulk
K / 61 - K / 90	5,195,000 gal. in bulk

These quantities and accompanying Avlubes will be delivered by ComServPac to the OKINAWA area prior to the respective periods shown, to be discharged as directed by ComGenlOthArmy. It is anticipated a minimum of 20,000 bbls. Avgas storage will be available on this island by K / 45. Re-supply shipments of Avgas will be made in bulk as prescribed for Phase I.

Re-supply of Class III products other than Avgas will consist of three (3) fifteen (15) day shipments in drums. Subsequent maintenance shipments will consist of approximately 15 days supplies (less Avgas, Mogas, and Diesel) until the prescribed levels are reached. Re-supply of Mogas and Diesel after the 3rd 15 day shipment will be in bulk; it is contemplated bulk storage for these products will be operative K / 15.

(3) MIYAKO JIMA.

Essential maintenance supplies for 30 days of all classes (except Class III which will be 15 days; and Class V) for all elements of the landing and garrison forces scheduled to be at the objective by A / 35 (L / 125) will be loaded on the WEST COAST and sailed at such time or times so as to arrive at ENIWETOK at A - 15 (L / 75). This shipment

will sail from the WEST COAST with one of the regular OKINAWA maintenance shipments, but will be loaded in separate ships. It will be held at ENIWETOK for forward movement on call of ComGen10thArmy and will constitute the first re-supply shipment for Phase IIc.

The second and succeeding re-supply shipments will be scheduled to arrive at ENIWETOK at 10-day intervals commencing A - 5(1/85) and accompanying regular OKINAWA maintenance shipments. These shipments will be held at ENIWETOK for forward movement on call of ComGen10thArmy. Supplies for the second and third re-supply shipments, loaded in separate ships, will contain 15 days' supply of all classes (except Class III Avgas and Class V) for all elements of the landing and garrison forces to be supported.

Supplies for the fourth and succeeding re-supply shipments, loaded in separate ships, will contain 15 days' supply of all classes (except drummed Avgas, Mogas and Diesel; and Class V) for all elements of the landing and garrison forces to be supported. These shipments will continue until the prescribed area levels are reached; thereafter only sufficient supplies will be included to maintain area levels.

Assuming the four airfields to be developed on this island are activated as scheduled Avgas requirements are estimated as follows:

A / 5 - A / 30	822,500 gals plus related avlubes
A / 31 - A / 60	3,517,500 " " " "
A / 61 - A / 90	8,579,000 " " " "

Of these quantities the first 25 days supply will be required in drums - 15,519 drums of Avgas and 465 drums (24,645 gals.) of Avlube. This drummed supply will be mounted with and will accompany the first Air Corps units to operate from the objective. Re-supply shipments of Avgas will be made in bulk as prescribed for Phase I.

Re-supply of Class III products other than Avgas will

consist of three (3) fifteen (15) day shipments in drums. Subsequent maintenance shipments will consist of approximately 15 days maintenance supplies (less Avgas, Mogas and Diesel), until the prescribed levels are reached. Thereafter, only sufficient supplies will be included to maintain those levels. Re-supply of Mogas and Diesel after the third 15-day shipment will be in bulk; it is contemplated bulk storage for these products will be operative by A / 15.

(4) KIKAI JIMA.

Essential maintenance supplies for 30 days of all classes (except Class III which will be 15 days and Class V) for all elements of the landing and garrison forces scheduled to be at the objective by F / 35 (L / 155) will be loaded on the WEST COAST and sailed at such time or times so as to arrive at ENIWETOK at F - 15 (L / 105). This shipment will sail from the WEST COAST with one of the regular OKINAWA maintenance shipments, but will be loaded in separate ships. It will be held at ENIWETOK for forward movement on call of ComGen10thArmy, and will constitute the first re-supply shipment for Phase IIIId.

The second and succeeding re-supply shipments will be scheduled to arrive at ENIWETOK at 10-day intervals commencing F - 5 (L / 115) and accompanying regular OKINAWA maintenance shipments.

These shipments will be held at ENIWETOK for forward movement on call of ComGen10thArmy. Supplies for the second and third re-supply shipments, loaded in separate ships, will contain 15 days' supply of all classes (except Class III Avgas and Class V) for all elements of the landing and garrison forces to be supported. Supplies for the fourth and succeeding re-supply shipments, loaded in separate ships, will contain 15 days' supply of all classes (except drummed Avgas, Mogas and Diesel; and Class V) for all elements of the landing and garrison forces to be supported.

These shipments will continue until the prescribed area levels

are reached; thereafter, only sufficient supplies will be included to maintain area levels.

Assuming the four airfields are activated on KIKAI JIMA as scheduled Avgas requirements are estimated as follows:

F / 35 - F / 60 1,776,800 gals. in bulk

F / 61 - F / 90 3,850,000 gals. in bulk

These quantities and related Avlubes will be delivered by ComServPac to the OKINAWA area prior to the respective periods shown, to be discharged as directed by ComGen10thArmy. It is anticipated a minimum of 20,000 bbls. Avgas storage will be available on this island by F / 35. Re-supply shipments of Avgas will be made in bulk as prescribed for Phase I. Re-supply of Class III products other than Avgas will consist of three (3) fifteen (15) day shipments in drums. Subsequent maintenance shipments will consist of approximately 15 days maintenance supplies (less Avgas, Mogas and Diesel), until the prescribed levels are reached. Thereafter, only sufficient supplies will be included to maintain those levels. Re-supply of Mogas and Diesel after the third 15 day shipment will be in bulk; it is contemplated bulk storage for these products will be operative by F / 15.

- (5) Individual shipping designators will be assigned to KUME, MIYAKO and KIKAI to facilitate these direct maintenance shipments.

9. MILITARY GOVERNMENT

Civilian requirements will be provided in the manner set forth in the Logistic Measures for Phase I, utilizing additional Military Government Teams as shown in the Troop List, Phase III.

25°

125°



MIYAKO RETTO.



KUME SHIMA.



OKINAWA SHIMA.

JEYU RETTO.

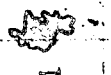
JE SHIMA.

YORON SHIMA.

OKINO ERABU SHIMA.

TORI SHIMA.

AMAMI O SHIMA.



TOKUNO SHIMA.



KIKAI SHIMA.

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M
A
(SOUTH WESTERN ISLANDS.)



OKINO DAITO SHIMA.
(RASA I.)

DAITO SHIMA
(BORODINO ISLAND)

SUPPLEMENT 1 TO ANNEX 2 OF APPENDIX "A"

ICEBERG - III.

ISLAND LOCATION MAP.



SCALE IN STATUTE MILES.

NAT SCALE 1:2,715,000 AT 27° LAT.

CINCPOA 48. - 29 DEC. 44.

FILE NO. 224.

25°

130°

NOTE.

ISLAND OUTLINE, ROAD SYSTEM &
GEN. DETAIL TRACED FROM AMS 1 731
1:50,000 MAPS. HYDROGRAPHY FROM
USNO CHARTS Nos. 2236 & 2581.

AIRFIELD DEVELOPMENT INDICATED IS
MAXIMUM POSSIBLE BASED ON PRESENT
INTELLIGENCE. AERIAL COVERAGE MAY
REVEAL POSSIBILITY OF ADDITIONAL
DEVELOPMENT FOR V3N.

AIRFIELD No 1.
TWO NEW RUNWAYS - 4500 FT.
2 VE GROUPS - 222 PLANES.
1 VE(N) SQDN. - 12 PLANES.

UNLOADING
FACILITIES.

NAVAL BASE

INDICATES LANDING
BEACH &
NUMBER

KUME SHIMA

STUDY FOR BASE LAYOUT

SHIMAJIRI SAKI.

GRAPHIC SCALE IN FEET

GRAPHIC SCALE IN STATUTE MILES

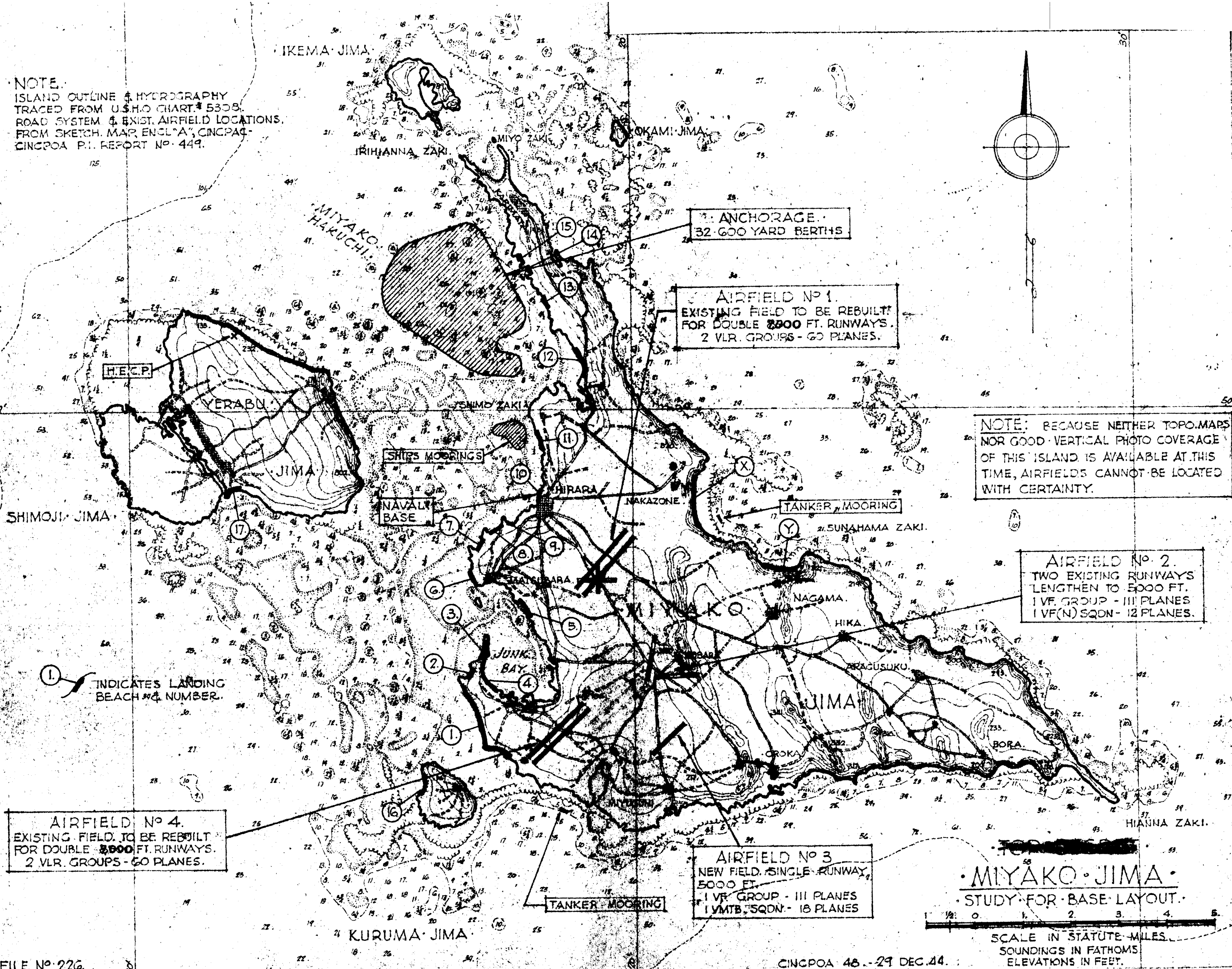
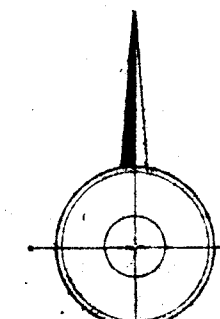
NATURAL SCALE 1:50,000
SOUNDINGS IN FATHOMS
ELEVATIONS IN METERS

FILE No 228.

Drawn by G.H. 27 Dec. 1944

52 CINCPAC 48-29 DEC. 44.

NOTE:
ISLAND OUTLINE & HYDROGRAPHY
TRACED FROM U.S.N.O. CHART # 5308.
ROAD SYSTEM & EXIST. AIRFIELD LOCATIONS
FROM SKETCH MAP ENCL "A", CINCPAC-
CINCPAC P.I. REPORT NO. 449.



ANCHORAGE.
32 600 YARD BERTHS.

AIRFIELD No 1.
EXISTING FIELD TO BE REBUILT
FOR DOUBLE 8000 FT. RUNWAYS.
2 VLR. GROUPS - 60 PLANES.

NOTE: BECAUSE NEITHER TOPO. MAPS
NOR GOOD VERTICAL PHOTO COVERAGE
OF THIS ISLAND IS AVAILABLE AT THIS
TIME, AIRFIELDS CANNOT BE LOCATED
WITH CERTAINTY.

AIRFIELD No 2.
TWO EXISTING RUNWAYS
LENGTHEN TO 5000 FT.
1 VF. GROUP - III PLANES
1 VF(N) SQDN - 12 PLANES.

AIRFIELD No 4.
EXISTING FIELD. TO BE REBUILT
FOR DOUBLE 8000 FT. RUNWAYS.
2 VLR. GROUPS - 60 PLANES.

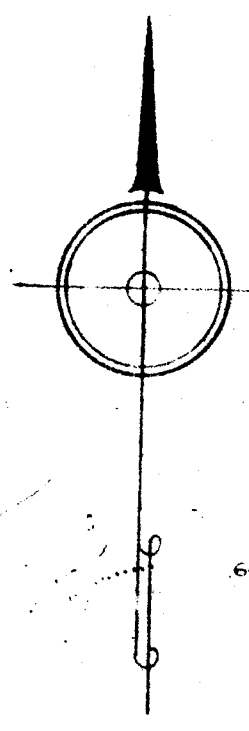
AIRFIELD No 3
NEW FIELD. SINGLE RUNWAY
5000 FT.
1 VF. GROUP - III PLANES
1 VMTB. SQDN - 18 PLANES

MIYAKO JIMA
STUDY FOR BASE LAYOUT.

SCALE IN STATUTE MILES.
SOUNDINGS IN FATHOMS
ELEVATIONS IN FEET.

CINCPAC 48 - 29 DEC 44.

FILE NO 226.



NOTE:
ISLAND OUTLINE, ROAD SYSTEM, &
GEN. DETAIL TRACED FROM: AMS L 791,
1:50,000 MAP, HYDROGRAPHY FROM
U.S.N.C. CHART # 5304. EXISTING AIR-
FIELD LOCATION FROM SKETCH MAP,
ENCL. 8, CINCPAC-CINCPAC REPORT
No. 447.

AIRFIELD No. 2
NEW RUNWAY - 5500 FT.
1 VF GROUP - III PLANES.

AIRFIELD No. 1
EXISTING AIRFIELD - RUNWAY
TO BE COMPLETED 4500 FT.
1 VF GROUP - III PLANES
1 VF BN SQDN. - 12 PLANES.

AIRFIELD No. 3
NEW RUNWAY - 5500 FT.
1 VF GROUP - III PLANES.
1 VF BN SQDN. - 12 PLANES.

AIRFIELD No. 4
NEW RUNWAY - 5500 FT.
1 VF GROUP - III PLANES.
1 VF BN SQDN. - 12 PLANES.

NAVAL BASE

NOTE: RUNWAYS FOR ESCORT FIGHTERS
TO BE 3500 FT. LONG WHERE POSSIBLE.

INDICATES LANDING
BEACH & NUMBER.

KIKAI SHIMA

STUDY FOR BASE LAYOUT
AIRFIELD SITES



SCALE IN STATUTE MILES.
SOUNDINGS IN FATHOMS
CONTOUR ELEV. IN METERS

ICEBERG III

CEN LIST OF JMWELING INTELLIGENCE

Island	Hydrographic Office	Army Map Service	Strategic Engineering Study No. 119 (C of E. U.S.A.)	Volume and Page	ONT 60	Cinccpac-Cinccpoa	Information Bulletin	Page	Reconnaissance	Photos	Photographic Intelligence	Reports
Kikai	US H. O. #5304	A.S. 1791 Sheet #29	II: 238, 239, 280, 281, 334, 335, 372, 404, 405		197, 198, 199	"Amami Gunto" Bull. No. 163-44, pp. 22-28			7534-2, 7535-2, 7536-2, 7537-3, 7538-3		Cinccpac-poa No. 447 (map)	
Kume	US H. O. #2581 #2338	A.S. 1791 Sheets 54, 55, 60	I: 22, 23, 24, 25, 26, 27, 66, 67, 68, 69, 70, 71, 100, 101, 120, 121, 122, 123, 124, 125, 156, 158, 160, 192, 193, 194, 195, 196, 197		106, 109, 110 (map)	"Chinawa Gunto" Bull. No. 161-44, pp. 58-61			7752-1, 7561-46, 12020-2		Cinccpac-poa Nos. 450, 451	
Miyako	US H. O. #5308 #1940	None	I: 20, 21, 64, 65, 118, 119, 154, 190, 191		71, 72, 75, 76, 77 (map)	"Sakishima Gunto" Bull. No. 162-44, pp. 25-36			7674-1, 7675-1, 7676-1, 7677-2, 7678-2, 7679-2, 7680-3, 7682-5, 7683-5, 11323-6, 11324-6, 11325-6, 11326-7, 11327-8, 11328-8, 11934-9, 11935-10, 11936-11, 12021-12		Cinccpac-poa Nos. 450, 451	
Okino Daito	US H. O. #5340	A.S. 1791 Sheet #69	I: 44, 45, 86, 140, 141, 176, 212, 213			"Nansai Shoto" Bull. No. 63-44, pp. 21			6959-1, 7655-3, 11329-4, 11331-6, 11332-6, 11330-5, 12025-7		Frisc #349/ Hq. Comdr. Shore Based AF, Forward Area, Cent. Pac. F.I. Memo No. 47/ Interpron 2 No. 219	

NOTE: The "Revised Estimate of Nansai Shoto" by the Joint Intelligence Study Publishing Board, Washington, 1 August 1944, contains maps and other pertinent material.

File No. 262

Cinccpoa 48
6 February 1945

ICEBERG PHASE III

ANNEX 3 TO APPENDIX H

TROOP LIST

S U M M A R Y O F P E R S O N N E L

ASSAULT FORCES

(a) Total	148,075
(b) To be used in Garrison Force	36,737
(c) To be withdrawn	111,338

GARRISON FORCES

(a) To be moved to area after assault	123,997
(b) To be provided by Assault Force	36,737
(c) Total	160,734

THIS LIST OF ASSAULT AND SUPPORTING SERVICE TROOPS IS DEEMED THE MINIMUM FOR ACCOMPLISHMENT OF PHASE III OF THIS OPERATION. UNITS TO BE REDEPLOYED FROM PHASE I ARE SO INDICATED, BUT AVAILABILITY OF OTHER UNITS HAS NOT BEEN DETERMINED. NOTE THE REPLACEMENT OF VBH UNITS BY VLR UNITS THROUGHOUT PHASE III.

SUMMARY - ICEBERG TROOP LIST - PHASE IIIa

ASSAULT

OKINO DAITO JIMA

G A R R I S O N

Differences
Assault and Garrison
Decreases Increases

SERVICE									
Engineers	557	206	763		279	279	484		
Medical		204	204	125		125	204	125	
Ordnance		46	46	110		110	46	110	
Quartermaster		514	514	162		162	514	162	
Signal	158	167	325	229	35	264	167	106	
Military Police		26	26	44		44	26	44	
Adjutant General				9		9		9	
Transportation	219	585	804	219		219	585		
Naval Base Units					344	344		344	
Military Government					75	75		35	
Total Service	377	597	1748	2722	898	733	1631	2026	935
OKINO Total	513	597	6209	7319	2839	782	3621	6623	2925

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - THREADWORM

January 1945

Unit	T/O	ASSAULT				GARRISON		Remarks
		Army	Navy	Marine	Army	Navy	Marine	
IS COM HQ	A-3, N3A					1	49	
INFANTRY REGT	F-10			1	3218			
INFANTRY BN (reinf)	7-15				1	1070		
<u>A.A. ARTILLERY</u>								
AAA A/W Btry	E-172		1	295				
AAA Gun Btry	44-17				1	150		
AAA A/W Btry	44-127				1	164		
AAA S/L Plat	44-138				1	91		
HQ & HQ Det AAA Gun Bn	44-116				1	40		
Total				295		445		Light AA Gp. AAA Bn From Phase I
<u>ARTILLERY</u>								
F.A. Bn (105 How)	F-25			1	602			
155 MM Gun (CA) Bn (- 1 Btry)	4-55				1	300		
F.A. Btry (105 MM)	6-27				1	96		
Total				602		396		
<u>ARMORED</u>								
Med Tank Co	F-76			1	169			
LVT (A) Co	F-1016			1	177			
Med Tk Plat	17-27				1	30		
Total				346		30		
<u>CHEMICAL</u>								
Chemical (MTZD) Co	3-27	1	136					
Total			136					

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - THREADWORM

January 1945

Unit	T/O	Army	ASSAULT Navy	Marine	Army	GARRISON Navy	Marine	Remarks
<u>ENGINEER</u>								
Naval C Bn	P-1		$\frac{1}{2}$ 557	1 206		$\frac{1}{4}$ 279		
Pioneer Co	F-36		557	206		279		
Total								
<u>MEDICAL</u>								
Medical Co	F-51			2 204	1 100			From Phase I
Sta Hosp (150)	8-560				1 12			From Phase I
Malaria Control Unit					1 13			
Malaria Survey Unit								
Total				204	125			
<u>ORDNANCE</u>								
Ordnance Maint Plat	F-61			1 35				
Tank Maint Sec	F-61			1 11	1 110			
Ord Lt W Co	9-8				110			
Total				46				
<u>QUARTERMASTER</u>								
Supply and Service Plat	F-62			1 114				
Det Mar Fld Dep	E-770			1 400	1 162			From Phase I
QM Comp Co	10-500				162			
Total				514				
<u>SIGNAL</u>								
JASCO Det	E-518			1/3 167	1 121			
Det Sig Serv Co	11-500	1 62			1 96			
Sig Constr Plat	11-67	1 96				1 35		
Navy Comm Unit					1 12			
Radar Maint Det	11-167				229			
Total		158		267		35		

~~CONFIDENTIAL~~

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - THREADWORM

January 1945

Unit	T/O	ASSAULT		GARRISON		Remarks
		Army	Navy	Army	Navy	
<u>MILITARY POLICE</u>						
M.P. Plat	F-90		26	1	44	
M.P. Plat 21	19-57			44		
Total			26			
<u>ADJUTANT-GENERAL</u>						
Army Postal Unit Type B	12-605			1	3	
Gar Censor	-			1	6	
Total				9		
<u>TRANSPORTATION</u>						
Motor Transport Co	F-56					
Amph Trac Co	F-1015		1	115		
Amph Trk Co	E-705		2	284		
Port Co	55-117		1	186		
Total		219		1	219	
		219		219		
<u>NAVAL</u>						
GROPAC	-				1	192
Loran Station	-				1	63
Garrison Beach Party	-				1	89
Total					344	
<u>CIVIL AFFAIRS</u>						
Mil Govt A Det	-		1	14	1	14
Mil Govt B Det	-		1	26	1	26
Mil Govt Civ Camp Orgn	-				1	35
Total			40			75
TOTALS	-	513	597	6209	2839	782
GRAND TOTAL ALL SERVICES		ASSAULT - 7319			GARRISON - 3621	

Includes Boat Pool (See attached schedule)
After construction reduced to 35.

~~SECRET~~

ANNEX 3 TO APPENDIX "H"

SUMMARY - ICEBERG TROOP LIST - PHASE IIIB

KUMBE SHIMA	A S S A U L T				G A R R I S O N				Differences			
									Assault and Garrison			
	Units	Army	Navy	Marine	Total	Army	Navy	Marine	Total	Decreases	Increases	
COMBAT	Headquarters	--	--	--	--	505	35	--	540	--	540	
	Divisions	14063	--	--	14063	3206	--	--	3206	14063	3206	
	Aviation	--	--	--	--	6448	--	--	6448	--	6448	
	AA Artillery	801	--	--	801	3043	--	--	3043	801	3043	
	Artillery	--	--	--	--	970	--	--	970	--	970	
	Armored	1472	--	--	1472	117	--	--	117	1472	117	
	Chemical Warfare	596	--	--	596	--	--	--	--	596	--	
	Total Combat	16932	--	--	16932	14289	35	--	14324	16932	14324	
	SERVICE	Signal	845	--	--	845	678	66	--	744	652	551
		Chemical	--	--	--	--	18	--	--	18	--	18
Aviation		159	--	--	159	5194	--	--	5194	--	5035	
Medical		399	87	--	486	1149	101	--	1250	376	1140	
Ordnance		935	--	--	935	827	--	--	827	388	280	
Engineer		2769	--	--	2769	5865	558	--	6423	2769	6423	
Naval Base Units		--	89	--	89	--	793	--	793	--	704	
Transportation		1835	--	--	1835	471	--	--	471	1364	--	
Military Police		507	--	--	507	344	--	--	344	163	--	
Quartermaster		1137	--	--	1137	1688	--	--	1688	--	551	
Adjutant General		--	--	--	--	74	--	--	74	--	74	
Military Government		--	42	--	42	--	92	--	92	--	50	
Total Service		8586	218	--	8804	16308	1610	--	17918	5712	14826	
KUMBE TOTAL		25518	218	--	25736	30597	1645	--	32242	22644	29150	

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - KNOWLEDGE

January 1945

Unit	T/O	Army	ASSAULT		Marine	Army	GARRISON		Marine	Remarks
			Navy				Navy			
CIC DET	30-500					2	25			
IS COM HQ						1	480	35		
Total							505	35		
AMPHIBIOUS DIVISION	7-	1	14032			1	3206			From Phase I
INFANTRY REGT	7-11	1	31							From Phase I
G-2 TEAMS			14063				3206			
AIR FORCES						2	196			
VF Grp Hqs	1-12					6	1872			
VF Sqs (Army)	1-27					1	288			
VF (N) Sqdns (Army)	1-67					2	210			
VLR Grp Hqs (Army)	1-112					6	3882			
VLR Sqs	1-167						6448			
Total										
A.A. ARTILLERY		1	801			2	1234			From Phase I
AAA A/W Bn	44-25					2	1602			
AAA Gun Bn	44-115					1	100			
AAA A/W Bn	44-25					1	65			
AAA Btry (- 1 Plat)	44-17					1	42			
Hq & Hq Btry AAA Grp	44-12									
AAA Op Det	44-7									
Total			801				3043			
ARTILLERY						1	488			From Phase I
155 MM Gun (CA) Bn	4-55					1	482			
F.A. Bn (105 MM)	6-25						970			
Total										
ARMORED		1	724			1	117			From Phase I
Tank Bn Medium	17-25									From Phase I
Tank Co Medium	17-27									From Phase I
AMPH Tk Bn	17-115	1	748							From Phase I
Total			1472				117			

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - KNOWNLEDGE

January 1945

Unit	T/O	Army	ASSAULT Navy	Marine	Army	GARRISON Navy	Marine	Remarks
<u>AVIATION SERVICE UNITS</u>								
AAF JCC Det	-	1	50		1	50		
AACS Mobile Unit	1-447s	1	109		1	109		
M.P. Co Aviation	19-217				2	202		
Weather Det	-				1	47		
Aviation Sqdn	1-999				2	506		
Sta Comp Sqdn	1-497s				1	103		
Air Serv Grp Hqs	1-452(T)				4	1248		
Air Eng Sq	1-457(T)				4	1032		
Air Mat Sq	1-458(T)				4	568		
Hq & Hq Sq Air Depot Grp	1-852				1	190		
Depot Rep Sq	1-857				1	369		
Depot Sup Sq	1-858				1	131		
Med Sup Plat Avn	8-497				1	21		
QM Trk Co Avn	10-517				2	204		
QM Plat Air Depot Grp	10-427				1	24		
Cml Co Air Op	3-457				1	134		
Sig Co Depot Avn	11-287				1	189		
Det VF Control Sq	1-47				1	25		
Photo Lab Bomb Grp	1-119				2	42		
Total			159			5194		
<u>CHEMICAL</u>								
Chem Bn Motorized	3-25	1	596					
Chem Sup Team Type II	3-500				1	18		
Total			596			18		
<u>ENGINEER</u>								
Engineer (C) Bn	5-15	3	1911		1	2604		From Phase I
Hq & Hq Co Eng (C) Grp	5-192	1	81		1	191		From Phase I
Eng Avn Regt (3 Bns)	5-411				1	321		
Maintenance Co	5-157				3	579		
Dump Truck Co	5-88				1			
Eng Serv Bn Comp	5-500							

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - KNOWLEDGE

January 1945

Unit	T/O	Army	ASSAULT Navy	Marine	Army	GARRISON Navy	Marine	Remarks
<u>ENGINEER (Continued)</u>								
S/L Maint	5-500				1 3			
Eng Const Bn	5-75				2 1800			
NCB	P-1					1 558		
Eng Avn Bn	5-415	1 777			1 33			From Phase I
Eng Depot Plat	5-47				1 118			
Eng Equip Co L	5-367				1 216			
Petrol Dist Co	5-327							
Total		2769			5865	558		
<u>MEDICAL</u>								
Evacuation Hosp (Semi)	8-581	1 256				1 87		Less nurses
G-6(100 beds)Dispensary M.G.	G-6		1 87					From Phase I
Port Surg Hosp	8-672s	2 74						From Phase I
Malaria Control unit	8-500	1 12						From Phase I
Malaria Survey unit	8-500	1 13						
G-8 (25 bed) Dispensary M.G.	G-8				3 984	1 14		Includes 126 nurses to arrive on call.
Sta Hosp (500)	8-560							New units not in assault from Phase I.
Mal Control unit					1 12			
Mal Survey unit					1 13			
Med Sup Team	8-500	1 23			1 23			
Sanitary Co	8-117				1 112			
Vet Det Food Insp	8-500				1 5			
Surg Team	8-500							
Total		3 21			1149	101		From Phase I.
<u>ORDNANCE</u>								
Heavy Maint Co Tk	9-37	1 202			1 157			
Maint Co (AA)	9-217	1 157						
Ammunition Co	9-17	1 186						
Hq & Hq Det Ord Bn	9-76	1 34			1 34			
Ord MM Co	9-7	1 162			1 162			

ICEBERG

ANNEX 3 TO APPENDIX H

TROOP LIST - PHASE III - KNOWLEDGE

January 1945

Unit	T/O	Army	Navy	Marine	Army	Navy	Marine	Remarks
<u>ORDNANCE</u>								
Hv Auto Maint Co	9-197	-	-		1 1/2	101		
Ord Ammo (Avn) Co	9-19	-	-		1	179		
Ord Depot Co	9-57	1	180		1	180		
Bomb Disposal Sq	9-179	2	14		2	14		
Total		935			827			
<u>QUARTERMASTER</u>								
QM Trk Co	10-57	2	220		2	220		
QM Serv Co	10-67	3	636		3	636		
Plat QM Salv Coll Co	10-187	1	56		1	56		
QM Dep Sup Co (Less 1 Plat)	10-227	1	142		1	142		
Plat QM Gr Co	10-297	1	23		1	23		
Hq & Hq Det QM Bn	10-536	2	60		2	60		
QM Bakery Co	10-147				1	168		
QM Ldy Co	10-167				1	270		
QM Salv Repr Co (Less 1 Plat)	10-237				1	113		
Total		1137			1688			
<u>SIGNAL</u>								
JASCO	11-1475		502					
Det Sig Serv Co(JCC / S&R)	11-500		150		1	250		
Signal Constr Co Hvy	11-67	1	193		1	193		
Naval Comm Unit								
Sig Hvy Const Co Avn	11-67				1	193	1	66
Det Sig Serv Bn (ACS)					1	22		
Radar Maint Units	11-617				3	20		
Total		845			678	66		
<u>ADJUTANT GENERAL</u>								
Army Postal Unit Type M	12-605				1	29		
Base Censorship Det	-				1	20		
Special Serv Plat	28-17				1	25		
Total					74			

From Phase I.

- 146 -

From Phase I.

January 1945.

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - KNOWLEDGE

Unit	T/O	ASSAULT			GARRISON			Remarks
		Army	Navy	Marine	Army	Navy	Marine	
<u>MILITARY POLICE</u>								
M P Co (Corps)	19-37	1 163			1 344			From Phase I.
M P Bn (less 2 Co) ZI	19-55	1 344			344			
Total		507						
<u>TRANSPORTATION</u>								
Am Trac Bn	17-125	2 1004			2 438			From Phase I.
Port Cos	55-117	2 438						
Ampn Trk Co	55-37	2 360			1 33			
Hq & Hq Det Port Bn	55-116	1 33			471			
Total		1835						
<u>NAVAL</u>								
GROPAC and attached naval units	-		1 89			1 89	704	See attached schedule
Garrison Beach Party	-		89				793	
Total								
<u>MILITARY GOVERNMENT</u>								
Interpreters							14	
Mil Govt A Det			1 15			1 15	15	
Mil Govt B Det			1 27			1 27	27	
Mil Govt Camp C Det						1 36	36	
Total			42				92	
TOTALS		25518	218		30697		1645	
GRAND TOTAL ALL SERVICES			ASSAULT 25736			GARRISON 32242		

ANNEX 3 TO APPENDIX H

SUMMARY - ICEBERG TROOP LIST - PHASE IIIc

MIVAKO JIMA

A S S A U L TG A R R I S O NDifferencesAssault and Garrison
Decreases Increases

Units	Army	Navy	Marine	Total	Army	Navy	Marine	Total	Decreases	Increases
COMBAT										
Headquarters			1097	1097	542	35		577	1097	577
Divisions, G-2, CIC	14113		34930	49043	14113			14113	34930	
Aviation					10905		340	11245		11245
AA Artillery	4564			4564	5943			5943		1379
Artillery	1032		4278	5310	1249			1249	5310	1249
Armored	2192		1704	3896	724			724	3172	
Total Combat	21901		42009	63910	33476	35	340	33851	44509	14450
SERVICE										
Aviation	99		294	393	11036		294	11330		10937
Chemical	729			729	403			403	596	270
Engineer	2418	2230	1007	5655	17010	2230		19240	1433	15018
Medical	374	261	464	1099	2284	331		2615	464	1980
Ordnance	2265			2265	1947			1947	887	369
Quartermaster	697		2500	3197	3998			3998	2619	3420
Signal	1299		1777	3076	9237	85		1010	2279	213
Adjutant General					180			180		180
Military Police	798			798	829			829	35	66
Transportation	3016		2204	5220	1128	274		1402	4125	307
Naval Base Units		178		178		2029		2029		1851
Military Gov't		126		126	37	329		366	84	324
Total Service	11695	2795	8246	22736	39777	5278	294	45349	12322	34935
MIVAKO TOTAL	33596	2795	50255	86646	73253	5313	634	79200	56831	49385

January 1945

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - ADJUTANT

Unit	T/O	ASSAULT				GARRISON		Remarks
		Army	Navy	Marine	Army	Navy	Marine	
CORPS HEADQUARTERS (MAR) F-850				1 1097	1 542	35		From Phase I.
IS COM HQ								
AMPHIBIOUS DIVISIONS (ARMY) 7		1 14032		2 34930	1 14032			From Area Reserve.
AMPHIBIOUS DIVISIONS (MAR) F-100		6 31			6 31			From Phase I.
G-2 TEAMS		4 50			4 50			
CIC TEAMS								
Total		14113		34930	14113			
AVIATION COMBAT UNITS								
Hq & Hq Sq Bomb Wg VLR	1-160-1				1 224			
Hq Bomb Group VLR	1-112				4 420			
Bomb Sq VLR	1-167				12 7764			
Photo Lab Bomb Gp	1-119				4 84			
Hq VF Gp	1-12				2 196			
VF Sq	1-27				6 1872			
VF (N) Sq	1-67				1 288			
Det VF Control Sq	1-47				1 57			
VMTB Sq (Mar)	D-103						1 340	
Total					10905		340	
AA ARTILLERY								
AAA A/W Bn Army	44-25	3 2403			4 3204			
AAA Gun Bn Army	44-115	3 1893			3 1893			
AAA S/L Bn less 1 Btry.	44-135				1 578			
Hq & Hq Btry AAA Gp Army	44-12	2 146			2 146			
Ops Det AAA	44-7	1 42			1 42			
AAA Hq & Hq Btry, Brig	44-10-1	1 30			1 80			
Total		4564			5943			
ARTILLERY								
Hq & Hq Btry Corps Arty	E-149			1 117				From Phase I.
155 mm Gun Bn	E-185			3 2211				From Phase I.
155 mm How Bn	E-135			3 1950				From Phase I.

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - ADJUTANT

January 1945

Unit	T/O	Army	ASSAULT Navy	Marine	Army	GARRISON Navy	Marine	Remarks
<u>ARTILLERY (Continued)</u>								
8" How Bn (Army)	6-365	1	586		2	1176		2 Bns plus one (1) Batter From Phase I.
Observation Bn (FA)	6-75	1	446		1	73		
155 MM Gun (CA) Bn (Army)	4-55							
HQ & HQ Btry C.A. Gp (Army)	4-62							
Total		1032		4278		1249		
<u>ARMORED</u>								
Tank Bn (Med) (Army)	17-25	1	724		1	724		From Phase I.
Amph Tk Bn	17-115	1	748					
Armored Tk Bn	F-1020			2	1704			
Tank Bn - Armored Flame Thrower	17-25	1	720					
Total		2192		1704		724		
<u>AVIATION SERVICE UNITS</u>								
A.W. Sqdn (Marine)	E-691			294	1	127	294	
Signal Co Wing VLR	-(11-247							
	(11-500							
MCS Mobile Unit	-(1-447s		99		1	135		
Serv Group Hq.	-(1-452-T				6	1872		
Air Material Sq	(1-453-T				6	852		
Air Eng Sq	(1-457-T				6	1548		
Aviation Sqdns	1-999				6	1518		
Chem Co Air Oper	3-457				2	268		
Chem Depot Co Avn	3-418				1	78		
Med Supply Plat Avn	8-497				2	42		
Ord Depot Co Avn	9-57				1	180		
Ord Maint Co Air Force	9-257				1	215		
QM Truck Co Avn	10-517				6	612		
QM Plat Air Depot Gp	10-427				2	48		
Sig Hvy Const Bn (less 1 co)	11-65				1	219		

SECRET

January 1945

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - ADJUTANT
ASSAULT

GARRISON

Unit T/O Army Navy Marine Army Navy Marine Remarks

AVIATION SERVICE UNITS (Continued)

Sig Co Dep Avn 11-287
MP Co Aviation 19-217
HQ & HQ Sq Air Depot Grp 1-852
Depot Rep Sq 1-857
Depot Sup Sq 1-858
Sta Complement Sq 1-497s
Det Weather Sq 1-627
Cml Maint Co Avn 3-47
HQ & HQ Co SAM 11-400
Det Sig Serv Bn ACS 11-500
Radio Sq Mob (J) 1-1027
Det Sig Serv Bn JCC 11-500
Total

CHEMICAL

Chemical Bn MTZ (Army) 3-25
Chemical Gen Serv Co 3-137
Chemical Smoke Gen Co 3-367
Chem Processing Co 3-77
Total

ENGINEER

Engineer C Bn 5-15
HQ & HQ Co Eng C Grp 5-192
Eng Topo Bn 5-55
Naval C.B. F-1
Avn Eng Regt (3 Bns) 5-411
Maint Co 5-157
Dump Truck Co 5-88
Eng Depot Plat 5-47
Eng Const Bn 5-75

99	294	11036	294
1 596		1 130	
1 133		1 133	
		1 140	
729		403	
3 1911		3 1911	
1 81		1 81	
1 426			
2 2230		2 2230	
		1 6489	
		2 382	
		8 856	
		1 48	
		6 5400	

From Phase I.

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January 1945

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - ADJUTANT

Unit	T/O	ASSAULT			GARRISON			Remarks
		Army	Navy	Marine	Army	Navy	Marine	
<u>ENGINEER (Continued)</u>								
Eng Serv Bn Comp	5-500				1	635		
8/L Maint	5-500				2	6		
Dep Eng Bn (Corps)	E-285			1, 1007				
Water Sup Co	5-67				1	136		
HQ & HQ Co Cont Grp	5-72				1	94		
HQ HQ Co Base Depot	5-592				1	72		
Co Base Depot	5-267				1	165		
Co Base Equip	5-377				1	173		
Co Heavy Shop	5-357				1	171		
Plat Part Sup	5-567				1	57		
Co Petrol Dist	5-327				1	216		
Co Light Equip	5-367				1	118		
Total		2418	2230	1007	17010	2230		
<u>MEDICAL</u>								
Corps Evac Hosp	8-510	1	212	2	464			
Field Hospital								
Dispensary 190 bed M.G.	G-6		2	261		2	261	
Malaria Control	8-506	1	12		1	12		
Malaria Service	8-500	1	13		1	13		
Sta Hosp (1000)	8-550				1	506		
Sta Hosp (500)	8-560				4	1144		
G-7 (50) in Quonset Huts	8-572s				2	74	1	70
Port Surg Hosp	8-117	2	74		2	224		
Sanitary Co	8-500				1	5		
Vet Det Food Insp	8-500				1	31		
Med Supply Team #5 (B5)	8-500				1	31		
Med Serv Det 9 teams	8-500	9	63		9	63		
Total		374	261	464	2284	331		

From Phase I.
Less Nurses.
1 G-6(100 Beds) / 1
G-6 Aug to 500 beds.
From Phase I.
From Phase I.
83 nurses to come in
later.
168 nurses to come in
later.

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - ADJUTANT

Unit	T/O	Army	Navy	Marine	Army	Navy	Marine	Remarks
ORDNANCE								
Hvy Maint Co (Trk)	9-37	1	202		1	202		
Hvy Auto Maint Co	9-197	2	404		1	202		
Maint Co AA	9-217	1	163		1	163		
Ammunition Co	9-17	2	372		1	186		
Bomb Disposal Sqd	9-179	3	21		3	21		
Hq & Hq Det Ord Gp	9-12	1	51					
Hq & Hq Det Ord Bn	9-76	4	136		2	68		
Ord HM Field Army Co	9-9				1	190		
Ord MM Co	9-7	2	324		2	324		
Ord MAM	9-127	2	232		2	232		
Ord Depot Co	9-57	2	360		1	180		
Ord Ammo (Avn) Co	9-17	-	-		1	179		
Total		2265			1947			
QUARTERMASTER								
QM Trk Co (Augmented)	10-57	1	135		4	540		
QM Serv Co	10-67	2	424		8	1696		
Flat QM Salv Coll Co	10-187	1	56					
Det QM Dep Sup Co	10-227	1	40					
Flat QM G.R. Co	10-297	1	23					
Hq & Hq Det QM Bn	10-56	1	19		5	95		
Mar Field Depot (Reinf)	E-770			1				
QM Salv Coll Co (less 1 Flat)	10-187				1	132		
QM Dep Sup Co	10-227				1	186		
QM G.R. Co (less 2 Flat)	10-297				1	84		
Hq & Hq Det QM Grp	10-22				1	31		
QM Bakery Co plus 2 Flat	10-147				1	250		
QM Ldy Co plus 2 Flat	10-167				1	400		
QM Steril Co	10-177				1	159		
QM Steril Co (less 1 Flat)	10-177				1	96		
QM Salv Rep Co	10-237				1	201		
QM Gas Sup Co	10-77				1	128		
Total		697		2500	3998			

- 153 -

6 for phase I

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - ADJUTANT
GARRISON

Unit	T/O	Army	Navy	Marine	Army	Navy	Marine	Remarks
<u>SIGNAL</u>								
Corps Sig Bn	E-530			1 777				From Phase I. From Phase I.
JASCO	E-513			2 1000				
JASCO	11-147s	1 502			1 378			
Sig Serv Co	11-500	1 250			1 437			
Sig Const Bn	11-65	1 437			1 46			
Det Sig Repair Co	11-127	1 46			1 24			
Det Sig Depot Co	11-107	1 24				1 85		
Naval Comm Unit								
Radar Maint Unit	11-617	6 40			6 40			
Total		1299		1777	925	85		
<u>ADJUTANT GENERAL</u>								
Army Postal Unit Type K	12-605				3 75			
Base Censorship Det	-				1 80			
Special Service Flat	23-17				1 25			
Total					180			
<u>MILITARY POLICE</u>								
M.F. Battalion less 1 Flat	19-55	1 600			1 600			
M.F. Co Corps	19-37	1 163			1 163			
M.F. Co Special	19-500				1 66			
F.O.W. Troop. Flat.	19-237	1 35						
Total		798			829			
<u>TRANSFORMATION</u>								
Amph Trac Bn (Mar)	E-50			4 2024				From Phase I.
Amph Trac Bn	17-125	2 1004						
Amph Truck Co (Army)	55-37	5 900						
Port Cos	55-117	5 1095			5 1095			3 from Phase I.
Amph Truck Co (Mar)	E-705			1 180				
Hq & Hq Co Fort Bn	55-116				1 33			

- 154 -

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ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - ADJUTANT

January 1945.

Unit	T/O	Army	ASSAULT Navy	Marine	Army	GARRISON Navy	Marine	Remarks
TRANSPORTATION (Continued)								
Hq & Hq Co Amph Truck Bn	55-500	1	17			$\frac{1}{4}$	274	
Navy C.B. Spec	F-1							
Total		3016		2204	1128	274		
NAVAL								
CUB						1448		
Garrison Beach Parties	-		2	178		2	178	
Truck Co (Navy)						1	150	
Base Co (Navy)						1	253	
Total			178			2029		
MILITARY GOVERNMENT								
Mil. Govt A Det			3	45		1	15	
Mil. Govt B Det						1	27	
Mil. Govt Camp Organ C Det						5	180	
Mil. Govt D Det						1	82	
Camps, 250 man	MLA, NSC				37		25	
Interpreters								
Total			126		37	329		
TOTAL		33596	2795	50255	73253	5313	634	
GRAND TOTAL ALL SERVICES								
			ASSAULT			GARRISON		
			86646			79200		

ANNEX 3 TO APPENDIX H

SUMMARY - ICEBERG TROOP LIST - PHASE IIIA

KIKAI SHIMA	A S S A U L T				G A R R I S O N				Differences		
	Units	Army	Navy	Marine	Total	Army	Navy	Marine	Total	Decreases	Increases
COMBAT											
Headquarters						505	35		540		540
Divisions	2072			17465	19537	8031			8031	19537	
Aviation						5112		340	5452		5452
AA Artillery	1491				1491	4591			4591		3100
Artillery						976			976		976
Armored				852	852	570			570	852	
Chemical Warfare						167			167		167
Total Combat	3563			18317	21880	19952	35	340	20327	20389	18836
SERVICE											
Signal	628			500	1128	860	64		924	500	296
Chemical						130			130		130
Aviation	129			294	423	6766		294	7060		6637
Medical	25	87		232	344	1235	157		1392	232	1270
Ordnance						928			928		928
Engineer		1115			1115	8461			10134	1115	10134
Naval Base Units							1673		1318		1318
Transportation	438			1666	2104	1028			1028	1666	590
Military Police						298			298		298
Quartermaster	138			1200	1338	1953			1953	1338	1953
Adjutant General						25			25		25
Military Government		42			42	15	139		154		112
Total Service	1358	1244		3892	6494	21699	3351	294	25344	4851	23701
KIKAI TOTAL	4921	1244		22209	28374	41651	3386	634	45671	25240	42537

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - FRICTION

January 1945..

Unit	T/O	ASSAULT				GARRISON		Remarks
		Army	Navy	Marine	Army	Navy	Marine	
ISLAND COMDRS HQ					1 480	35		
CIC UNIT					1 25			
	Total			1 17465	505	35		
AMPHIBIOUS DIVISION	F-100				1 8000			
INFANTRY DIV LESS 1 RCT AND	7-11							
1 BCT	7-31	1 2072			6 31			From Phase I.
PARACHUTE REGT								
G-2 TEAMS								
	Total	2072		17465	8031			
AVIATION UNITS					1 98			
Hq Night Fiter Gp	1-12				4 392			
VF Group Hq	1-12				12 3744			
VF Sqdns	1-37				1 245			
Hq & Hqs Fighter Wing	1-10-1				2 576			
VF(N) Sqdns (Army)	1-67						1 340	
VMTB Sqdns (Mar)	D-103							
Fiter Cont Sqdn Det	1-47				1 57			
	Total				5112		340	
A.A. ARTILLERY								
Hq & Hq Btry, AAA Brig	44-10-1				1 80			
AAA A/W Bn SM	44-125	1 787			3 2361			
AAA Gun Bn SM	44-115	1 631			2 1262			
AAA S/L Bn less 1 Btry	44-135				1 700			
Hq & Hq Btry AAA Gp	44-12	1 73			2 146			
AAA Opns Det	44-7				1 42			
	Total	1491			4591			
ARTILLERY								
155 MM Gun (CA) Bn	4-155				2 976			
	Total				976			
ARMORED								
Tank Bn Med (less one Co)	17-25				1 570			

From Phase I.

January 1945

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - FRICTION
ASSAULT GARRISON

Unit	T/O	Army		Navy		Marine	Army		Navy		Marine	Remarks
<u>ARMORED (Continued)</u>	F-1020					1 852						
Armored Am Trac Bn	Total					852					570	
<u>AVIATION SERVICE UNITS</u>												
<u>A.W. Sqdn (Marine)</u>	1-447s					294					294	
AACS Mobile Unit	1					1 109						
JCC Det, Sig Serv Bn, Avn	1-452-T					50						
Air Serv Group Hq	1-457-T					5 1560						
Air Eng Sqn	1-458-T					5 1290						
Air Material Sqdn	1-422					5 710						
Sta. Comp Sqdn	-					3 309						
Weather Det	1-999					80						
Aviation Sqdns	19-217					4 1012						
W.P. Co. Avn	11-500					3 303						
Sig Serv Det, ACS	1-852					1 22						
Hq & Hq Sqdn Air Dep Gp	1-853					1 190						
Dep. Rep. Sqdn	1-858					1 369						
Dep. Sup. Sqdn	8-497					1 131						
Med. Sup. Plat Avn	10-517					2 204						
QM Trk Co Avn	11-67					1 193						
Sig Const Co, Hvy Avn	10-427					1 24						
QM Plat, Air Dep Gp	11-287					1 189						
Sig Depot Co Avn	Total					6766					294	
<u>CHEMICAL</u>												
Chem Co Mtzed	3-27					1 167						
Chem Co Gen Serv Serv Unit	3-137					1 130						
Total						297						
<u>ENGINEER</u>												
<u>W.C.B.</u>	P-1					2 1274						From Phase I.
Eng Bn 'C'	5-15					1 3381						
Eng Avn Regt(4 Avn Eng Bns)	5-415					1 81						
Hq & Hq Co Eng C Gp	5-192					1 188						From Phase I.
Lt Equip Co	5-367											

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - FRICTION

January 1945.

Unit	T/O	ASSAULT		GARRISON		Remarks		
		Army	Navy	Marine	Army	Navy	Marine	
<u>ENGINEER (Continued)</u>								
Eng Const Bn	5-75				2	1800		
Engr Maint Co	5-157				1	191		
Engr Serv Bn Comp	5-500				1	579		
Engr Dump Truck Co	5-88				4	428		
Eng S/L Maint Team	5-500				1	3		
Eng Dep Plat	5-47				1	33		
Parts Supply Plat	5-567				1	57		
Petrol Dist Co	5-327				1	216		
Const Grp Hq & Hq Co	5-72				1	94		
Water Supply Co	5-67				1	136		
Total			1115	1 232		8461	1673	
<u>MEDICAL</u>								
Evac Hosp, Corps					2	74		From Phase I.
Port Surg Hosp					1	12		From Phase I.
Malaria Control Unit	8-500	1 12			1	13		From Phase I.
Malaria Survey Unit	8-500	1 13						
G-6(Aug. to 150 beds)M.G.	G-6		1 87				1 87	
Field Hospital (400)	8-510				2	424	1 70	
G-7 (50)	G-7				2	572		1 from Phase I.
Sta Hosp (500 bed)	8-560							84 nurses to come in later.
Sanitary Co	8-117				1	112		
Vet Det Food Insp					1	5		
Med Supply Team Type 4	8-500				1	23		
Total		25	87	232		1235	157	From Phase I.
<u>ORDNANCE</u>								
Hvy Maint Co (Trk)	9-37				1	202		
Ordnance MM Co	9-7				1	162		
Hq & Hq Det Ord Bn	9-76				1	34		
Ord Depot Co	9-57				1	180		
Ord Ammo Co	9-17				1	179		
Med Maint Co (AA)	9-217				1	157		

~~SECRET~~

ICEBERG
ANNEX 3 TO APPENDIX H
TROOP LIST - PHASE III - FRICTION

January 1945.

Unit	T/O	ASSAULT			GARRISON			Remarks
		Army	Navy	Marine	Army	Navy	Marine	
<u>ORDNANCE (Continued)</u>								
Bomb Disposal Sqdn	9-500				2	14		
	Total				928			
<u>QUARTERMASTER</u>								
Sect QM Trk Co (Augmented)	10-57	1	13		2	268		From Phase I.
Plat QM Serv Co	10-67	1	100		4	876		
Det QM Dep Sup Co	10-227	1	25		1	56		
Mar Field Depot	E-770			1	1	186		
QM Trk Co (Augmented)	10-57				1	23		
QM Serv Co	10-67				2	60		
Plat QM Salv Coll Co	10-187				1	160		
QM Dep Co Supply	10-227				1	211		
Plat QM G.R. Co	10-297				1	113		
Hq & Hq Det QM En	10-56							
QM Bakery Co	10-147							
QM Idy Co (less 1 Plat)	10-167							
QM Salv Rep Co (less 1 Plat)	10-237							
	Total	138		1200		1953		
<u>SIGNAL</u>								
Sig Co Wing	11-247				1	127		From Phase I.
JASCO	E-518			1	1	266		
Det Sig Serv Co	11-500	1	191		1	437		
Signal Const Bn Hvy	11-65	1	437				1	
Naval Comm Unit							64	
Radar Maint Unit	11-617				4	30		
	Total		628	500		860	64	
<u>ADJUTANT GENERAL</u>								
Army Postal Unit Type K	12-605				1	25		
	Total					25		
<u>MILITARY POLICE</u>								
MP Co ZI	19-57				2	298		
	Total					298		

ICEBERG
 ANNEX 3 TO APPENDIX H
 TROOP LIST - PHASE III - FRICTION
 January 1945.

Unit	T/O	ASSAULT		GARRISON		Remarks
		Army	Navy	Army	Navy	
<u>TRANSPORTATION</u>						
Hq & Hq Co Amph Trk Bn	55-500					From Phase I. From Phase I. From Phase I.
Amph Truck Co	55-37			1 17		
Amph Trac Bn	E-50			3 540		
Amph Trac Co	E-46					
Amph Truck Co	E-705					
Port Cos	55-37	2 438		2 438		
Hq & Hq Co Port Bn	55-116			1 33		
Total		438		1028		
<u>NAVAL</u>						
GROPAC					1 459	See attached schedule.
PT Operating Bases					2 470	
Boat Pool					1 300	
Garrison Beach Party					1 89	
Total					1318	
<u>MILITARY GOVERNMENT</u>						
Mil Govt A Det			1 15		1 15	
Mil Govt B Det			1 27		1 27	
Mil Govt Camp Orgn C Det					2 72	
Camps 250 man					1 25	
Interpreters						
NIA						
Total			42	15	139	
TOTALS		4921	1244	41651	3386	634
GRAND TOTAL ALL SERVICES			ASSAULT 28374		GARRISON 45671	

NAVAL BASE UNIT FOR OKINO DAITO JIMA

GROPAC

	<u>Off.</u>	<u>E.M.</u>	<u>Total</u>
A - 3 Administration (mod.) (1 Officer as Port Director)	4	30	
B - 5A Boat Pool - including crews for LCM and LCV(P).	2	65	
B - 7 Surface Radar	1	20	
B - 8 Minesweeping	1	1	
D - 10 Storage (mod)	1	8	
D - Disbursing	1	3	
E - 9 Mobile small boat repair (aug)	1	24	
G - 10 10 Bed dispensary	1	3	
J - 4A Bomb Disposal	1	1	
J - 4B Mine Disposal	1	1	
J - 4C Base Demolition	-	-	
N - 1A Camp (250 men) modified	-	22	
N - 9 Base Recreation	-	-	
	<hr/> 14	<hr/> 178	<hr/> 192

NAVAL BASE UNITS FOR KUME

GROPAC

	<u>Off.</u>	<u>E.M.</u>	<u>Total</u>
Standard GroPac plus			
Additional functional components	21	274	
B - 1 HECP	4	23	
B - 3 Underwater Det.	5	24	
J - 12B Net Component	3	27	
B - 7 Radar (med)	1	20	
B - 8 Minesweeping	1	1	
B - 9 Fleet Moorings	-	-	
B - 10 Nav Aids	-	-	
	<hr/> 35	<hr/> 369	<hr/> 404
Boat Pool (boats supplied by ComPhibsPac)			<hr/> 300
GRAND TOTAL			<hr/> 704

Supplements 1 and 2 to Annex 3 to Appendix H

NAVAL BASE UNITS FOR MIYAKO JIMA

CUB

		<u>Off.</u>	<u>E.M.</u>	<u>Total</u>
A - 2	Admin	7	55	
A - 6	Intelligence	2	3	
A - 7	Shore Patrol	3	20	
B - 1	HECP	4	23	
B - 3	Underwater Det.	5	27	
B - 4A	Port Director	10	14	
B - 4C	Harbor Patrol	1	28	
B - 5A	Boat Pool	1	5	
B - 5B	Barge Pool	-	28	
B - 6	Radar	1	46	
B - 8	Minesweeping	1	1	
B - 9	Fleet Moorings	-	--	
B - 10	Navigation Aids	-	1	
D - 2	Supply (modified)	10	75	
D - 4	Tank Farm (modified)	1	11	
D - 15	Cobbler & Tailor Shop	-	5	
D - 22	Disbursing Office	1	5	
E - 8	Small Boat Repair (equip. aug.)	4	64	
E - 9	Small Boat Repair (mot.)	-	18	
E - 16	Oxygen Plant	-	12	
E - 17	Acetylene Plant	-	6	
- 19	Typewriter Repair	-	1	
	Dispensary (100 bed)	8	109	
	First Aid Sub-Dispensary	1	2	
	Sub-Disp. Dental	1	1	
	Gas Tank Farm	-	--	
	Machine Gun	1	5	
	Ammunition Storage	5	10	
	Bomb Disposal	1	1	
	Wire Disposal	1	1	
	Demolition	-	--	
	Wire Assy. Depot (fwd)	3	30	
	Net Component	5	45	
	Camp (250 man)	-	25	
	Camp (250 man)	-	--	
	Camp (1000 man)	-	81	
	Camp (1000 man)	-	--	
	Bakery (1000 men)	-	6	
	Base recreation	-	--	
12A	Fire Prot - Basic	1	4	
- 12C	Fire Prot - Waterfront	-	2	
(7)C- 2	Pre-embarkation Unit	-	--	
		<u>78</u>	<u>760</u>	<u>848</u>
	Boat Pool (boats supplied by PhibsPac)			600
	GRAND TOTAL			<u>1448</u>